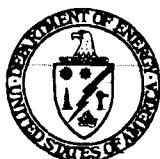




Rocky Flats Environmental Technology Site

**Quarterly Environmental
Monitoring Report**



April - June 1998

Rocky Flats Environmental Technology Site
P.O. Box 464 • Golden, CO 80402-0464

RF/RMRS-98243.UN

ADMIN RECORD

SW-A -002766

Points of Contact:

S. Bell, (303) 966-5226
Environmental Reporting, Groundwater Programs
Department of Energy, Rocky Flats Field Office

R. McCallister, (303) 966-9692
Air, Meteorology and Climatology Programs
Department of Energy, Rocky Flats Field Office

J. Stover, (303) 966-9735
Surface Water Program
Department of Energy, Rocky Flats Field Office

S. Nesta, (303) 966-6386
Kaiser-Hill Company, L.L.C.

Contributors:

L. A. Dunstan, Surface Water
G. R. Euler, Ambient and Effluent Air
J. Euler, Ambient and Effluent Air
G.F. Squibb, Surface Water

Publisher:

Rocky Mountain Remediation Services, L.L.C.

Appendix A -Special Reporting

Collective Dose

DOE Order 5400.5 requires the assessment of collective population radiation dose to a distance of 80 km (50 miles). Collective population dose is calculated as the average radiation dose to an individual in a specified area, multiplied by the number of individuals in that area. In assessing the 1997 collective population dose to the public from RFETS, the assessment was limited to airborne emissions of radioactive materials from the Site as the major contributor to population dose.

The collective dose assessment was performed in the *1997 Radionuclide Air Emissions Annual Report* using the computer model CAP88-PC. The population surrounding RFETS was based on 1994 data adjusted for regional growth. The collective dose was calculated to be 0.27 person-rem for CY97.

Table A-1 Radiation Dosage by Radionuclide for 1997

Radionuclide	Soil Inhalation Radiation Dose (mrem)	Soil Ingestion Radiation Dose (mrem)	External Irradiation Radiation Dose (mrem)	Water Ingestion Radiation Dose (mrem)	Total Radiation Dose By (mrem)
Am-241	8.68E-03	5.84E-02	5.54E-03	2.73E-04	7.29E-02
Pu-239/240	3.87E-02	2.70E-01	1.29E-04	4.42E-04	3.09E-01
U-234	1.21E-05	1.64E-09	1.75E-11	1.41E-03	1.42E-03
U-235	1.22E-06	1.67E-10	1.79E-09	5.99E-05	6.11E-05
U-238	9.45E-05	1.28E-08	6.68E-11	1.41E-03	1.50E-03
H-3	2.56E-08	0.00E+00	0.00E+00	0.00E+00	2.56E-08
Total	4.7E-02	3.3E-01	5.7E-03	3.6E-03	3.9E-01

the Woman Creek Reservoir, just east of Indiana Avenue. The surface water within these cells is pumped to Walnut Creek just east of Great Western Reservoir. The water then follows the same path as the waters released in Walnut Creek at RFETS. Because of these circumstances, it is not reasonable to assume that a resident would use the surface water released from RFETS for household use. It is reasonable to assume though that the residents near the eastern boundary of RFETS may come into contact with surface waters released from RFETS in a recreational capacity. It is therefore assumed that residents wade in surface waters periodically and incidentally ingest these surface water at these times. Exposure parameters for this recreational exposure were taken from the open space exposure scenario which is defined in Appendix P, "Programmatic Preliminary Remediation Goals," of the Implementation Guidance Document within the Rocky Flats Cleanup Agreement (RFCA).

Radiation Dose Assessment

In order to develop the radiation dose to the MEI member of the public, the location of the MEI must be decided. From the *1997 Radionuclide Air Emissions Annual Report*, the individual receiving the highest radiation dose through the air inhalation pathway was located on Mower Lake, east of RFETS. Since surface water is preferentially released to the east of RFETS and the surface soils east of RFETS contain elevated concentrations of radioactive material, the three locations east of RFETS were investigated along with the location northeast of RFETS to determine the MEI individual. After assessing the radiation dose to an individual at all four locations, the MEI individual for CY97 is located at Mower Lake.

To calculate radiation dose due to inhalation and ingestion, concentrations of radioactive material in air, water and soil are first multiplied by the amount of time the MEI is exposed to these media (i.e., 24 hrs/day, 350 days/yr, etc.) and then the intake rates (i.e., breathing rate, water ingestion rate, etc.) appropriate to the MEI individual. This product is the total amount of radioactive material inhaled and ingested by the MEI individual. The total amount of radioactive material inhaled and ingested is then multiplied by the radiation dose conversion factors found in Federal Guidance Report No. 11, *Limiting Values of Radionuclide Intake and Air Concentrations and Dose Conversion Factors for Inhalation, Submersion and Ingestion*, to calculate the radiation dose to the MEI because of inhalation and ingestion of radioactive material.

To calculate radiation dose because of external irradiation, concentrations of radioactive material in soil are multiplied by the external radiation dose conversion factors found in Federal Guidance Report No. 12, *External Exposure to Radionuclides in Air, Water and Soil*.

The radiation dose received by the MEI individual is 0.39 mrem. This radiation dose is well within the radiation dose limit of 100 mrem in DOE Order 5400.5. The following table gives the breakdown of radiation dose by radionuclide and by exposure pathway for the MEI individual.

Location of Members of the Public Surrounding RFETS

In order to compare the radiation dose to a member of the public with radiation dose limits, it is necessary to identify the MEI member of the public. This member of the public will receive the highest radiation dose from radioactive material released from RFETS. The radiation dose received by the MEI member of the public will be used to compare with public radiation dose limits.

To identify the MEI member of the public, seven locations surrounding RFETS were investigated. The nearest member of the public was assessed in the north, northwest, southwest, south and east (3 locations) directions from RFETS. All of these locations are residents.

Exposure Pathway Analysis

The most significant exposure pathways for a resident will be assessed in this radiation dose assessment. The exposure pathways of 1) Inhalation of radioactive material in air, 2) Ingestion of radioactive material in surface soil, 3) External exposure from radioactive material in surface soil, and 4) Ingestion of surface water will be assessed in this radiation dose assessment. The ingestion of homegrown produce was not assessed due to the high dilution of radioactive material deposited on surface soil during tilling.

All of these exposure pathways though may not be applicable to each of the six locations being examined and/or may not be significant to each of these six locations at the boundary of RFETS. This is because surface water is preferentially released to the east of RFETS and because the surface soils east of RFETS contain elevated concentrations of radioactive material. Therefore, the ingestion of radioactive material in surface water will only be applicable to those locations east of RFETS. Also, the ingestion of radioactive material in surface soil as well as the external exposure from radioactive material in surface soil will be most significant east of RFETS.

For the inhalation of radioactive material in air, ingestion of radioactive material in surface soil and external exposure from radioactive material in surface soil exposure pathways, the EPA's reasonable maximum exposure (RME) exposure parameters for a resident will be used. Exposure parameters were taken from EPA's OSWER Directive 9285.6-03, "Human Health Evaluation Manual, Supplemental Guidance: 'Standard Default Exposure Factors'." The RME exposure parameters represent the maximum exposure reasonably expected by an individual.

For the ingestion of surface water exposure pathway, it is not reasonable to assume that a resident would use the surface water released from RFETS for household use. This is because the surface water is released intermittently from RFETS in both Walnut Creek and Woman Creek. Therefore this water is not a reliable water supply. In Walnut Creek, surface water is released to a waterway that is not used as a drinking water supply. Surface water released from the plant in Walnut Creek was diverted around Great Western Reservoir to Big Dry Creek and subsequently to the South Platte River. Big Dry Creek contributes less than 0.2 percent to the total flow in the South Platte River. There is no drinking water supply use of the South Platte River from the confluence of Big Dry Creek along the entire reach to the confluence of the North Platte River in Nebraska. In Woman Creek, surface water is discharged to the creek where water flows to any one of the cells in

DOE Order 5400.5 encourages the use of realistic, but conservative, approaches to radiation dose assessment. The radiation dose assessment performed in this report uses this approach.

Sources of Radioactive Material

The radioactive material released to the environment at RFETS include isotopes of americium, plutonium, uranium, and tritium. For CY97, these radioactive materials were released from RFETS through air emissions and through surface water emissions. There have also been past releases from RFETS that have deposited americium and plutonium on surface soils east of RFETS. These surface soils were investigated as Operable Unit #3 at RFETS. Emissions of radioactive material in air and water plus past depositions of radioactive material in surface soils will be used to assess the radiation dose to the public during CY97.

The radioactive material released in air from RFETS is quantified in the *1997 Radionuclide Air Emissions Annual Report*. This report was developed to comply with the requirements from the Environmental Protection Agency (EPA) in Title 40 of the Code of Federal Regulations (CFR), Part 61 and from the Colorado Air Quality Control Commission Regulations. All sources of radioactive material (both point sources and area sources) at RFETS are assessed in this report with their associated air emissions. Air emissions are then translated into air concentrations of radioactive material outside of the boundary of RFETS. Air concentrations of radioactive material from this report are used to quantify the amount of radioactive material inhaled by members of the public. The deposition rate of radioactive material onto surface soils is also assessed in this report. Surface soil concentrations of radioactive material will be used to quantify the amount of radioactive material ingested in soil by a member of the public as well as to quantify external radiation exposure to a member of the public.

The radioactive material released in water from RFETS is quantified through routine surface water monitoring activities. In 1997, Ponds A-4, B-5 and C-2 released water off-site in a batch manner. The pond discharge water was analyzed for radioactive material. The volume of water was recorded for each release. Volume weighted average surface water concentrations of radioactive material are used to quantify the amount of radioactive material ingested by members of the public.

Because of past releases of radioactive material at RFETS, there are elevated levels of radioactive material in surface soils east of RFETS. The amount of radioactive material in surface soils is documented in the *Final Resource Conservation and Recovery Act Facility Investigation/Remedial Investigation Report for Operable Unit #3 (Offsite Areas)*. Surface soil samples taken to support the Operable Unit #3 Report will be used to quantify the amount of radioactive material near a member of the public. Surface soil concentrations of radioactive material will be used to quantify the amount of radioactive material ingested in soil by a member of the public as well as to quantify external radiation exposure to a member of the public.

Appendix A: Rocky Flats Environmental Technology Site 1997 Public Radiation Dose Assessment

Introduction

A public radiation dose assessment was performed for calendar year (CY) 1997 to support the requirements of DOE Order 5400.5, "Radiation Protection of the Public and the Environment." This DOE Order states that the radiation dose to the public will be assessed from exposures to radiation sources from routine activities at a DOE facility and from property released subsequent to remedial action at that facility. This public radiation dose will be compared with the annual radiation dose limit of 100 mrem from this Order to assure that the radiation dose limit is not exceeded. The member of the public that received the highest radiation dose from radiation sources at the Rocky Flats Environmental Technology Site (RFETS) is called the maximally exposed individual (MEI). The radiation dose received by the MEI will be compared with the annual radiation dose limit of 100 mrem. For CY97, the MEI was located at Mower Lake. The radiation dose received by this MEI was 0.39 mrem. This radiation dose is well within the annual radiation dose limit of 100 mrem.

Radiation Protection Standards for the Public

Standards for protection of the public from radiation sources are based on the concept of radiation dose. This concept provides a means for quantifying the biological effect or risk from all types of radiation on a common basis. Radiation dose is expressed in rem or mrem (1 rem = 1,000 mrem). Radiation protection standards are based on guidance from the National Council on Radiation Protection and Measurement (NCRP) and the International Commission on Radiological Protection (ICRP). These organizations are internationally recognized for their expertise in radiation protection principles. DOE Order 5400.5 prescribes an annual public radiation dose limit of 100 mrem which is based on guidance from the NCRP and ICRP.

Radiation Dose Assessment Methodology

In order to assess the radiation dose to a member of the public from radiation sources at RFETS, a number of steps need to be followed. These steps are:

1. The radiation sources at RFETS that release radioactive material to the environment need to be analyzed, and the releases from these sources need to be quantified,
2. The members of the public closest to the boundary of RFETS need to be located,
3. The exposure pathways (inhalation, ingestion, etc.) by which these members of the public may be exposed to the released radioactive material need to be defined, and
4. The radiation dose received by these members of the public need to be assessed.

Table 4-30 Sand/Sediment Split, 2nd Quarter 1998

Loc	Sample Date	Sieve Analysis (%)						
		0.75 Inches	0.375 Inches	#4 Mesh	#10 Mesh	#40 Mesh	#200 Mesh	<#200 Mesh
GS01	4/16/98	<1	<1	<1	<1	<1	<1	100
GS01	5/5/98	<1	<1	<1	<1	<1	<1	100
GS02	4/17/98	<1	<1	<1	<1	<1	<1	100
GS03	5/5/98	<1	<1	<1	<1	<1	<1	100
GS04	3/13/98	<1	<1	<1	<1	<1	<1	100
GS04	4/8/98	<1	<1	<1	<1	<1	<1	100
GS05	4/15/98	<1	<1	<1	<1	<1	<1	100
GS05	5/5/98	<1	<1	<1	<1	<1	<1	100
GS05	5/22/98	<1	<1	<1	<1	<1	<1	100
GS06	4/8/98	<1	<1	<1	<1	<1	<1	100
SW134	5/4/98	<1	<1	<1	<1	<1	<1	100
SW134	6/10/98	<1	<1	<1	<1	<1	<1	100

Table 4-29 Hydrologic Water Quality Parameters and Major Ions, 2nd Quarter 1998

Location	Sample Date	TSS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Cl (mg/l)	F (mg/l)	SO ₄ (mg/l)	HCO ₃ (mg/l)
GS01	3/20/98	< 5	43.8	10.7	25.6	1.48	28	0.29	32	180
GS01	4/16/98	<5	39	9.27	24.4	1.6	33	0.37	29	120
GS01	5/5/98	5	34.4	9.41	27.2	1.47	30	0.39	37	160
GS02	3/22/98	5	26.8	5.17	9.15	3.41	12	0.26	14	74
GS02	4/17/98	16	66.9	16	56.1	8.27	86	0.28	140	140
GS03	3/19/98	61	35.3	13.6	58.3	5.37	99	0.42	45	90
GS03	5/5/98	42	48.2	11.4	35.5	3.99	44	0.37	60	180
GS04	3/13/98	<5	27.45	5.87	16.95	1.66	14	0.34	32	110
GS04	4/8/98	29	23.2	4.71	14.6	1.91	18	0.25	22	56
GS05	4/15/98	7	19.7	5.46	17.1	1.37	27	0.25	18	72
GS05	5/5/98	45	43.1	11.6	27.8	2.02	19	0.2	8	84
GS05	5/22/98	250	21.1	7.11	12.4	3.58	20	0.2	8	85
GS06	4/8/98	180	9.55	2.63	4.39	2.38	3.4	0.09	9	60
SW134	5/4/98	6	10.9	6.38	17.6	1.15	9.8	0.36	37	74
SW134	6/10/98	43	24.8	5.4	12.2	0.954	9.5	0.32	39	80

Table 4-28 Water Quality Parameters, 2nd Quarter 1998

Loc	Sample Date	Hardness (mg/l)
GS10	4/1/98-4/9/98	140
GS10	4/9/98-4/16/98	180
GS10	4/16/98-4/20/98	100
GS10	4/20/98-4/30/98	160
GS10	4/30/98-5/6/98	120
GS10	5/6/98-5/12/98	160
GS10	5/12/98-5/23/98	150
GS10	5/23/98-6/5/98	220
GS10	6/5/98-6/11/98	a
GS10	6/11/98-6/23/98	b
GS10	6/23/98-7/8/98	240
SW027	3/23/98-4/13/98	140
SW027	4/13/98-4/20/98	160
SW027	4/20/98-4/30/98	150
SW027	4/30/98-5/8/98	140
SW027	5/8/98-5/26/98	150
SW027	5/26/98-	c
SW093	3/2/98-3/13/98	250
SW093	3/13/98-3/19/98	220
SW093	3/19/98-3/23/98	160
SW093	3/23/98-4/1/98	180
SW093	4/1/98-4/9/98	120
SW093	4/9/98-4/16/98	150
SW093	4/16/98-4/20/98	94
SW093	4/20/98-4/30/98	140
SW093	4/30/98-5/6/98	130
SW093	5/6/98-5/12/98	150
SW093	5/12/98-5/23/98	200
SW093	5/23/98-6/5/98	230
SW093	6/5/98-6/9/98	220
SW093	6/9/98-6/15/98	260
SW093	6/15/98-6/30/98	350
SW093	6/30/98-7/9/98	c

a Non-sufficient quantity.

b Incomplete analysis.

c Composite sample in progress.

Table 4-27 Metals, 2nd Quarter 1998

Loc	Sample Date	Be (µg/L)	Dissolved Cd (µg/L)	Cr (µg/L)	Dissolved Ag (µg/L)
GS10	3/2/98-3/9/98	undetect	0.16	1.1	0.36
GS10	3/9/98-3/18/98	undetect	0.26	0.9	0.4
GS10	3/23/98-4/1/98	undetect	0.62	1.3	0.54
GS10	4/1/98-4/9/98	undetect	0.13	5.8	0.38
GS10	4/9/98-4/16/98	undetect	0.06	5.9	0.38
GS10	4/16/98-4/20/98	undetect	0.15	2.9	0.29
GS10	4/20/98-4/30/98	0.24	0.05	3.2	undetect
GS10	4/30/98-5/6/98	0.94	undetect	8.9	undetect
GS10	5/6/98-5/12/98	undetect	undetect	0.6	0.34
GS10	5/12/98-5/23/98	0.3	0.1	7.3	undetect
GS10	5/23/98-6/5/98	undetect	0.1	2.1	undetect
GS10	6/5/98-6/11/98	a	a	a	a
GS10	6/11/98-6/23/98	b	b	b	b
GS10	6/23/98-7/8/98	undetect	undetect	0.1	0.1
SW027	3/23/98-4/13/98	undetect	0.05	0.88	undetect
SW027	4/13/98-4/20/98	undetect	0.2	0.79	0.28
SW027	4/20/98-4/30/98	0.66	undetect	1.8	undetect
SW027	4/30/98-5/8/98	undetect	undetect	0.82	0.51
SW027	5/8/98-5/26/98	undetect	undetect	1.3	undetect
SW027	5/26/98-	c	c	c	c
SW093	3/13/98-3/19/98	undetect	0.55	undetect	0.54
SW093	3/23/98-4/1/98	undetect	1.4	undetect	0.44
SW093	4/1/98-4/9/98	undetect	0.16	3.1	0.28
SW093	4/9/98-4/16/98	undetect	undetect	3.2	0.3
SW093	4/16/98-4/20/98	undetect	undetect	3.8	0.3
SW093	4/20/98-4/30/98	0.49	0.06	2.4	undetect
SW093	4/30/98-5/6/98	0.7	undetect	8.9	undetect
SW093	5/6/98-5/12/98	undetect	undetect	undetect	undetect
SW093	5/12/98-5/23/98	0.2	undetect	3.4	undetect
SW093	5/23/98-6/5/98	0.1	0.3	1.8	undetect
SW093	6/5/98-6/9/98	0.1	undetect	2.7	undetect
SW093	6/9/98-6/15/98	2	0.1	undetect	undetect
SW093	6/15/98-6/30/98	b	b	b	b
SW093	6/30/98-7/9/98	b	b	b	b

a Non-sufficient quantity.

b Incomplete analysis.

c Composite sample in progress.

Table 4-26 Radionuclides, 2nd Quarter 1998 (continued)

Loc	Sample Date	Pu-239, -240 (pCi/l)	Am-241 (pCi/l)	Total U (pCi/l)	Tritium (pCi/l)
GS37	6/14/98	0.011	0.000	0.321	170
GS37	6/22/98	0.022	0.029	0.736	d
GS38	4/2/98-4/16/98	0.103	0.023	a	a
GS38	4/16/98-5/4/98	0.043	0.007	a	a
GS38	5/4/98-6/5/98	0.193	0.035	a	a
GS38	6/5/98-	e	e	a	a
GS39	3/19/98-4/16/98	0.451	0.108	a	a
GS39	4/16/98-5/8/98	0.102	0.050	a	a
GS39	5/8/98-6/6/98	0.287	0.072	a	a
GS39	6/6/98-	e	e	a	a
GS40	4/10/98-4/23/98	0.010	0.055	a	a
GS40	4/23/98-5/8/98	0.015	0.022	a	a
GS40	5/8/98-6/5/98	0.025	0.058	a	a
GS40	6/5/98-7/27/98	d	d	a	a
SW022	4/3/98	0.500	0.057	1.375	a
SW022	4/15/98	2.010	0.555	1.875	a
SW022	5/4/98	0.146	0.048	3.143	a
SW022	5/22/98	9.490	1.760	2.606	a
SW022	6/4/98	0.077	0.032	0.837	a
SW027	3/23/98-4/13/98	0.086	0.008	3.041	a
SW027	4/13/98-4/20/98	0.040	0.000	3.998	a
SW027	4/20/98-4/30/98	0.204	0.016	4.576	a
SW027	4/30/98-5/8/98	0.802	0.124	3.174	a
SW027	5/8/98-5/26/98	0.333	0.106	3.364	a
SW027	5/26/98-	e	e	e	a
SW091	4/3/98	0.145	0.141	4.724	a
SW091	4/16/98	0.070	0.035	5.000	a
SW091	5/8/98	0.060	0.036	5.055	a
SW091	5/22/98	0.112	0.247	4.206	a
SW093	4/1/98-4/9/98	0.032	0.031	1.675	a
SW093	4/9/98-4/16/98	0.063	0.020	2.139	a
SW093	4/16/98-4/20/98	0.024	0.039	1.285	a
SW093	4/20/98-4/30/98	0.014	0.003	1.510	a
SW093	4/30/98-5/6/98	0.048	0.044	1.639	a
SW093	5/6/98-5/12/98	0.022	0.000	1.922	a
SW093	5/12/98-5/23/98	0.056	0.061	2.148	a
SW093	5/23/98-6/5/98	0.000	0.000	2.690	a
SW093	6/5/98-6/9/98	0.004	0.000	2.678	a
SW093	6/9/98-6/15/98	0.003	0.000	3.399	a
SW093	6/15/98-6/30/98	0.003	0.000	5.052	a
SW093	6/30/98-7/9/98	d	d	d	a
SW118	4/1/98-4/6/98	0.000	0.000	a	a
SW118	4/6/98-4/16/98	0.002	0.009	a	a
SW118	4/16/98-4/23/98	0.003	0.000	a	a
SW118	4/23/98-5/6/98	0.000	0.000	a	a
SW118	5/6/98-6/3/98	0.011	0.000	a	a
SW118	6/3/98-6/30/98	0.000	0.000	a	a
SW118	6/30/98-7/28/98	d	d	a	a

a Not applicable.

b Bottle broken in laboratory.

c Lost at laboratory.

d Incomplete analysis.

e Composite sample in progress.

Table 4-26 Radionuclides, 2nd Quarter 1998 (continued)

Loc	Sample Date	Pu-239, -240 (pCi/l)	Am-241 (pCi/l)	Total U (pCi/l)	Tritium (pCi/l)
GS11	2/12/98-2/14/98	0.019	0.003	2.675	a
GS11	2/14/98-2/16/98	0.018	0.004	2.096	a
GS11	2/16/98-2/19/98	0.002	0.001	2.872	a
GS11	2/19/98-2/23/98	0.003	0.019	2.595	a
GS11	4/1/98-4/2/98	0.000	0.012	2.624	a
GS11	4/2/98-4/6/98	0.000	0.047	2.767	a
GS11	4/6/98-4/8/98	0.000	0.006	2.483	a
GS11	4/8/98-4/10/98	0.000	0.007	2.772	a
GS11	4/10/98-4/14/98	0.001	0.020	2.568	a
GS11	5/21/98-5/23/98	0.000	0.000	1.846	a
GS11	5/23/98-5/24/98	0.000	0.000	2.097	a
GS11	5/24/98-5/26/98	0.001	0.008	1.915	a
GS11	5/26/98-5/28/98	0.006	0.006	2.140	a
GS11	5/28/98-6/1/98	0.000	0.003	2.353	a
GS27	1/17/98	1.130	0.298	0.747	a
GS27	3/17/98	4.460	1.060	0.388	a
GS27	3/30/98	1.380	0.272	0.325	a
GS27	4/15/98	36.400	11.600	1.528	a
GS27	4/26/98	4.240	1.380	0.274	a
GS27	5/5/98	7.340	2.800	0.354	a
GS27	5/8/98	13.900	4.820	0.581	a
GS27	5/22/98	64.300	14.800	2.123	a
GS27	6/4/98	4.350	1.070	0.273	a
GS31	5/21/98-5/24/98	0.000	0.017	2.645	a
GS31	5/24/98-5/27/98	0.001	0.010	2.360	a
GS31	5/27/98-5/30/98	0.010	0.030	2.563	a
GS32	4/15/98	1.750	0.620	1.237	a
GS32	5/8/98	1.010	0.390	0.893	a
GS32	5/22/98	6.970	3.260	2.788	a
GS32	6/4/98	0.241	0.281	0.317	a
GS32	6/14/98	0.230	0.246	0.217	a
GS33	3/23/98-4/5/98	0.005	0.000	a	a
GS33	4/5/98-4/20/98	0.003	0.000	a	a
GS33	4/20/98-5/7/98	0.021	0.000	a	a
GS33	5/7/98-7/15/98	d	d	a	a
GS34	4/1/98-4/22/98	0.009	0.008	a	a
GS34	4/22/98-5/21/98	0.009	0.010	a	a
GS34	5/21/98-6/8/98	0.011	0.015	a	a
GS34	6/8/98-6/11/98	0.015	0.031	a	a
GS34	6/11/98-	e	e	a	a
GS35	3/25/98-4/4/98	0.011	0.000	a	a
GS35	4/4/98-4/10/98	0.000	0.000	a	a
GS35	4/10/98-4/20/98	0.009	0.011	a	a
GS35	4/20/98-4/30/98	0.000	0.000	a	a
GS35	4/30/98-6/3/98	0.005	0.000	a	a
GS35	6/3/98-	e	e	a	a
GS37	3/17/98	0.063	0.023	1.965	150
GS37	4/2/98	0.065	0.024	1.963	79
GS37	4/7/98	0.036	0.028	1.180	250
GS37	4/13/98	0.035	0.025	0.575	320
GS37	4/25/98	0.055	0.014	0.236	170
GS37	5/3/98	0.017	0.017	0.312	300
GS37	5/8/98	0.464	0.003	0.273	43
GS37	5/20/98	0.040	0.011	1.144	310
GS37	6/4/98	0.007	0.000	0.347	210

Section 4.2: Water Quality Data**Table 4-26 Radionuclides, 2nd Quarter 1998**

Loc	Sample Date	Pu-239, -240 (pCi/l)	Am-241 (pCi/l)	Total U (pCi/l)	Tritium (pCi/l)
GS01	3/13/98-3/19/98	0.016	0.012	a	74
GS01	3/19/98-3/23/98	0.000	0.005	a	b
GS01	3/23/98-4/2/98	0.006	0.016	a	0
GS01	4/2/98-4/13/98	0.012	0.000	a	140
GS01	4/13/98-4/20/98	0.006	0.000	a	c
GS01	4/20/98-4/30/98	0.009	0.004	a	150
GS01	4/30/98-5/21/98	0.005	0.014	a	120
GS01	5/21/98-5/24/98	0.000	0.003	a	370
GS01	5/24/98-5/27/98	0.009	0.000	a	370
GS01	5/27/98-5/30/98	0.007	0.000	a	330
GS01	5/30/98-6/10/98	d	d	a	d
GS03	2/24/98-3/23/98	0.003	0.000	a	370
GS03	3/23/98-4/1/98	0.004	0.000	a	d
GS03	4/1/98-4/2/98	0.000	0.039	a	150
GS03	4/2/98-4/6/98	0.033	0.011	a	39
GS03	4/6/98-4/7/98	0.004	0.000	a	260
GS03	4/7/98-4/9/98	0.013	0.006	a	290
GS03	4/9/98-4/10/98	0.025	0.028	a	240
GS03	4/10/98-4/11/98	0.000	0.000	a	0
GS03	4/11/98-4/16/98	0.002	0.000	a	130
GS03	4/16/98-4/22/98	0.011	0.016	a	230
GS03	4/22/98-4/27/98	0.000	0.024	a	320
GS03	4/27/98-5/7/98	0.005	0.003	a	18
GS03	5/7/98-5/21/98	0.001	0.000	a	390
GS03	5/21/98-5/22/98	0.026	0.011	a	79
GS03	5/22/98-5/24/98	0.014	0.007	a	260
GS03	5/24/98-5/25/98	0.026	0.014	a	160
GS03	5/25/98-5/26/98	0.019	0.028	a	490
GS03	5/26/98-5/27/98	0.020	0.000	a	230
GS03	5/27/98-5/29/98	0.007	0.002	a	270
GS03	5/29/98-5/31/98	0.024	0.014	a	250
GS03	5/31/98-6/2/98	0.002	0.008	a	270
GS03	6/2/98-6/8/98	0.037	0.000	a	310
GS03	6/8/98-6/10/98	0.007	0.006	a	120
GS03	6/10/98-	e	e	e	e
GS08	4/4/98-4/6/98	0.007	0.021	2.287	a
GS08	4/6/98-4/10/98	0.018	0.001	2.290	a
GS08	4/10/98-5/22/98	0.005	0.000	2.332	a
GS08	5/22/98-5/25/98	0.006	0.018	2.041	a
GS08	5/25/98-5/28/98	0.000	0.008	2.612	a
GS08	5/28/98-6/2/98	0.023	0.008	2.189	a
GS08	6/2/98-6/8/98	0.006	0.000	2.781	a
GS10	4/1/98-4/9/98	0.354	0.224	3.253	a
GS10	4/9/98-4/16/98	0.276	0.077	4.074	a
GS10	4/16/98-4/20/98	0.036	0.058	2.137	a
GS10	4/20/98-4/30/98	0.058	0.101	3.473	a
GS10	4/30/98-5/6/98	0.195	0.163	2.700	a
GS10	5/6/98-5/12/98	0.164	0.042	3.267	a
GS10	5/12/98-5/23/98	0.761	0.317	3.303	a
GS10	5/23/98-6/5/98	0.016	0.052	4.289	a
GS10	6/5/98-6/11/98	0.004	0.012	4.127	a
GS10	6/11/98-6/23/98	0.046	0.067	3.520	a
GS10	6/23/98-7/8/98	d	d	d	a

Gaging Station SW134 is located 39° 53' 31"N, 105° 13' 44"W, at Rock Creek below Jefferson County Gravel Pit (See Section 4 Map). This station is a Buffer Zone Monitoring Location and monitors water pump discharged from gravel pits and entering Rock Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.

Data unavailable at this time.

***Figure 4-25 Mean Daily Discharge at Gaging Station SW134, Water Year 1998
(April, May, June 1998)***

Table 4-21 Gaging Station SW134: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	a	0.000	a	b	b	b
2	a	0.000	a	b	b	b
3	a	0.000	0.000	b	b	b
4	a	0.000	0.000	b	b	b
5	a	0.000	0.000	b	b	b
6	a	0.331	0.000	b	b	b
7	0.000	0.000	0.000	b	b	b
8	0.000	0.000	a	b	b	b
9	0.000	0.000	a	b	b	b
10	00.000	0.000	a	b	b	b
11	0.000	0.000	a	b	b	b
12	0.000	0.300	a	b	b	b
13	0.000	0.000	0.118	b	b	b
14	0.000	0.000	0.000	b	b	b
15	0.000	0.000	0.000	b	b	b
16	0.000	0.000	0.043	b	b	b
17	0.000	0.000	0.000	b	b	b
18	0.000	0.000	0.001	b	b	b
19	0.000	0.000	0.001	b	b	b
20	0.000	0.000	0.091	b	b	b
21	0.000	0.000	0.077	b	b	b
22	0.000	0.000	0.007	b	b	b
23	0.000	0.280	0.000	b	b	b
24	0.000	0.000	0.176	b	b	b
25	0.000	0.000	0.336	b	b	b
26	0.000	0.000	0.000	b	b	b
27	0.000	0.000	0.000	b	b	b
28	0.000	a	0.056	b	b	b
29	0.000	NA	0.000	b	b	b
30	0.000	NA	0.001	b	b	b
31	0.000	NA	0.002	N/A	b	N/A
Mo. Avg. (cfs)	0.000	0.034	0.038	b	b	b

Monthly Discharge					
Cubic Feet	0	78,632	78,473	b	b
Gallons	0	588,212	587,020	b	b
Acre Feet	0.00	1.80	1.80	b	b

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.
b No data or poor data because of winter icing conditions.

Gaging Station SW118 is located 39° 53' 47"N, 105° 12' 16"W, along North Walnut Creek above Portal 3 (See Section 4 Map). This station is a Buffer Zone Monitoring Location and monitors water leaving the NW portion of the Site Industrial Area and entering North Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.

Data unavailable at this time.

***Figure 4-24 Mean Daily Discharge at Gaging Station SW118, Water Year 1998
(April, May, June 1998)***

Table 4-24 Gaging Station SW118: Mean Daily Discharge (Cubic Feet per Second)

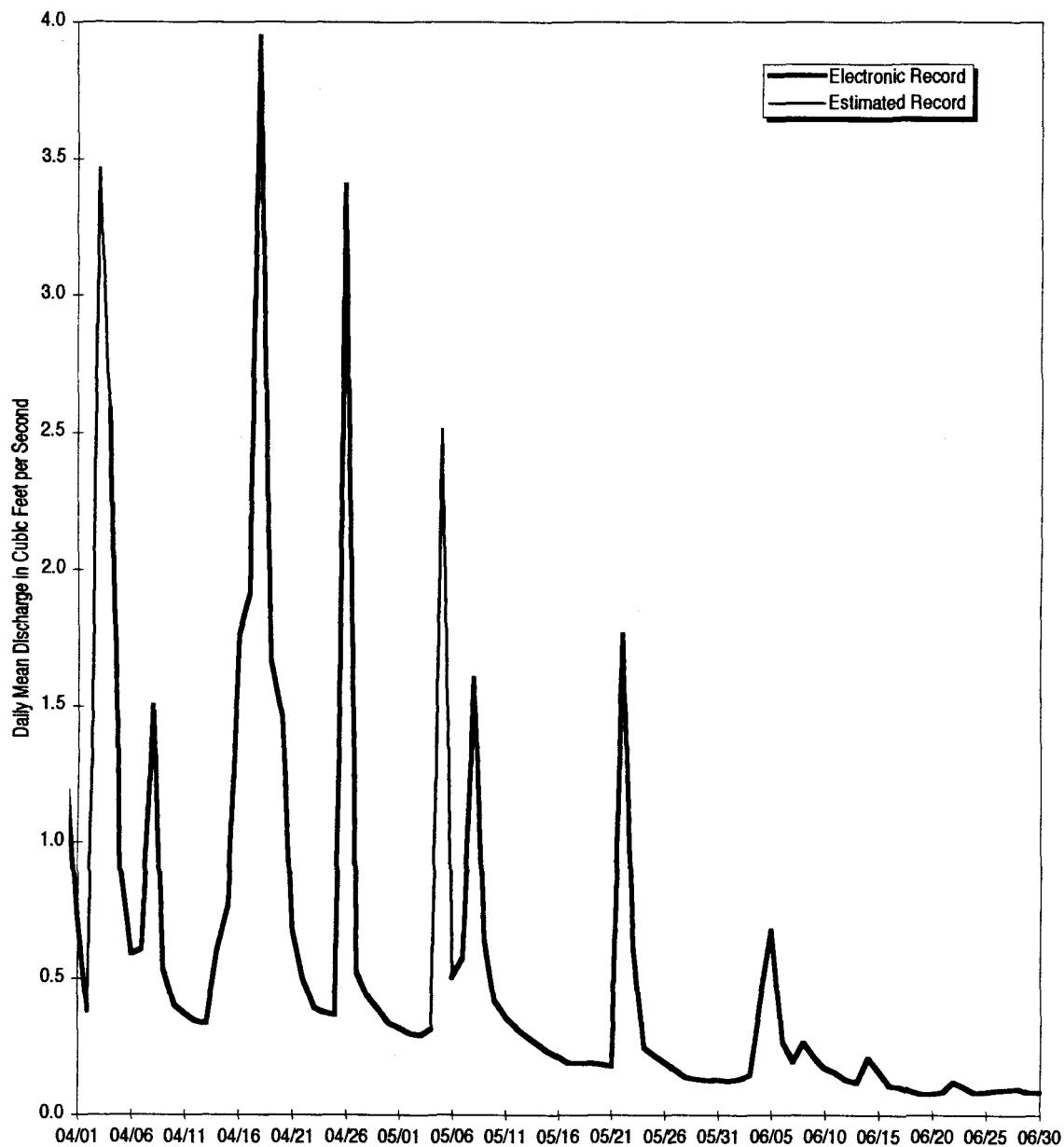
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.067	0.056	0.019a	b	b	b
2	0.049	0.052	0.029a	b	b	b
3	0.063	0.050	0.038	b	b	b
4	0.059a	0.049	0.041	b	b	b
5	0.055a	0.045	0.035	b	b	b
6	0.040a	0.041	0.039	b	b	b
7	0.045a	0.042	0.054	b	b	b
8	0.051a	0.039	0.062	b	b	b
9	0.056a	0.038	0.051	b	b	b
10	0.061a	0.039	0.057	b	b	b
11	0.057a	0.043a	0.061	b	b	b
12	0.063a	0.039a	0.076	b	b	b
13	0.067a	0.042a	0.082	b	b	b
14	0.063a	0.038	0.050	b	b	b
15	0.082a	0.037	0.037	b	b	b
16	0.096a	0.044	0.033	b	b	b
17	0.114a	0.046	0.033	b	b	b
18	0.126a	0.042	0.143	b	b	b
19	0.128a	0.039	0.306	b	b	b
20	0.101a	0.039a	0.349	b	b	b
21	0.084a	0.037a	0.408	b	b	b
22	0.073a	0.028	0.443	b	b	b
23	0.062a	0.026	0.340	b	b	b
24	0.069	0.025	0.226	b	b	b
25	0.067	0.024	0.183	b	b	b
26	0.078	0.026a	0.164	b	b	b
27	0.076	0.019a	0.148	b	b	b
28	0.058	0.016a	0.139	b	b	b
29	0.068	NA	0.137	b	b	b
30	0.071	NA	0.294	b	b	b
31	0.063	NA	0.378	N/A	b	N/A
Mo. Avg. (cfs)	0.071	0.038	0.144	b	b	b

Monthly Discharge						
Cubic Feet	191,043	91,765	384,774	b	b	b
Gallons	1,429,099	686,447	2,878,311	b	b	b
Acre Feet	4.39	2.11	8.83	b	b	b

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.
b Data unavailable at this time.

Gaging Station SW093 is located $39^{\circ} 53' 51''\text{N}$, $105^{\circ} 11' 48''\text{W}$, along North Walnut Creek at the 72" culvert 1000 feet above the Pond A-1 Bypass (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water leaving the Site Industrial Area and entering the A-Series Ponds and North Walnut Creek. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.



**Figure 4-23 Mean Daily Discharge at Gaging Station SW093, Water Year 1998
(April, May, June 1998)**

Table 4-23 Gaging Station SW093: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.145	0.124	0.089	0.724	0.320	0.125
2	0.158	0.120	0.090	0.382	0.298	0.131
3	0.156	0.114	0.099	3.461a	0.292	0.147
4	0.142	0.116	0.100	2.581	0.317	0.437
5	0.136	0.119	0.110	0.905	2.512a	0.677
6	0.168	0.119	0.105	0.591	0.503	0.268
7	0.197	0.129	0.164	0.607	0.576	0.196
8	0.222	0.130	0.233	1.498	1.604	0.266
9	0.202	0.135	0.170	0.535	0.643	0.209
10	0.173	0.131	0.155	0.404	0.420	0.172
11	0.214	0.129	0.167	0.372	0.360	0.154
12	0.181	0.128	0.205	0.345	0.319	0.128
13	0.144	0.121	0.211	0.335	0.290	0.118
14	0.146	0.117	0.166	0.599	0.260	0.208
15	0.181	0.116	0.148	0.767	0.235	0.159
16	0.170	0.171	0.132	1.761	0.211	0.109
17	0.220	0.133	0.246	1.912	0.193	0.103
18	0.244	0.124	0.568	3.944	0.189	0.088
19	0.239	0.112	0.998	1.668	0.190	0.076
20	0.206	0.108	1.125	1.458	0.186	0.076
21	0.158	0.110	1.472	0.680	0.181	0.084
22	0.127	0.108	1.823	0.501	1.766	0.122
23	0.128	0.104	1.079	0.396	0.617	0.101
24	0.130	0.106	0.553	0.377	0.250	0.079
25	0.134	0.114	0.384	0.367	0.220	0.083
26	0.121	0.096	0.346	3.403	0.194	0.090
27	0.121	0.099	0.327	0.526	0.166	0.091
28	0.125	0.091	0.286	0.440	0.138	0.097
29	0.130	NA	0.267	0.390	0.130	0.082
30	0.134	NA	0.786	0.339	0.127	0.084
31	0.128	NA	1.228	NA	0.129	NA
Mo. Avg. (cfs)	0.164	0.119	0.446	1.076	0.446	0.159

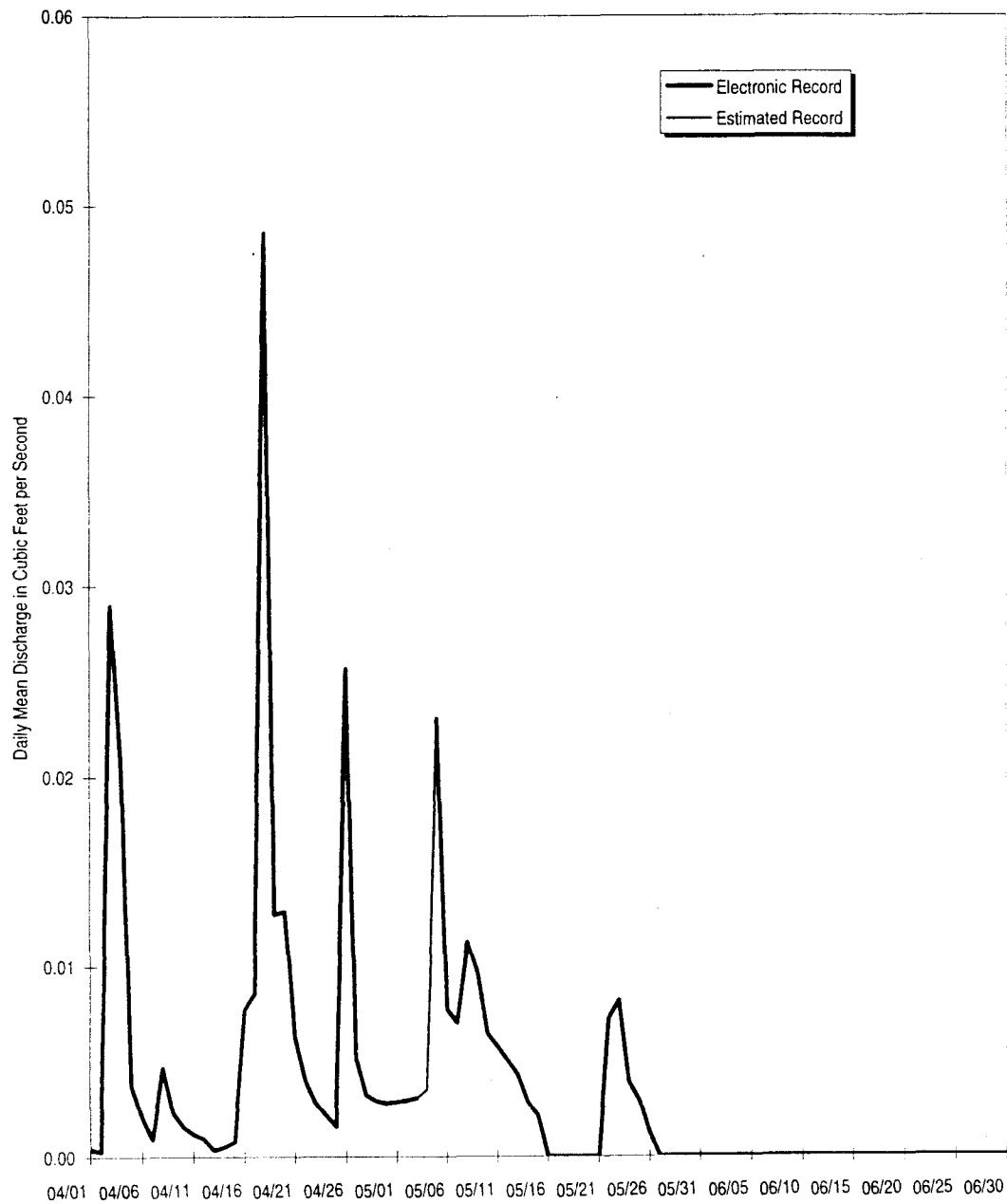
Monthly Discharge

Cubic Feet	439,099	287,162	1,195,367	2,787,774	1,195,265	411,286
Gallons	3,284,692	2,148,123	8,941,970	20,854,000	8,941,204	3,076,632
Acre Feet	10.08	6.59	27.44	63.99	27.44	9.44

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW091 is located at State Plane 2086064; 751322, along the drainage NE of the Solar Ponds draining to the A-Series Ponds (See Section 4 Map). This location is a RFCA New Source Detection Location and monitors water draining from the area NE of the Solar Ponds. Storm event samples are collected for selected radionuclides.



*Figure 4-22 Mean Daily Discharge at Gaging Station SW091, Water Year 1998
(April, May, June 1998)*

Table 4-22 Gaging Station SW091: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.0000	a	a	0.0004	0.0029	0.0000
2	0.0000	a	a	0.0003	0.0029	0.0000
3	a	a	a	0.0290	0.0031	0.0000
4	a	a	a	0.0209	0.0035b	0.0000
5	a	a	a	0.0038	0.0231	0.0000
6	0.0000	a	a	0.0021	0.0078	0.0000
7	0.0000	a	a	0.0009	0.0070	0.0000
8	a	a	a	0.0047	0.0113	0.0000
9	a	a	a	0.0023	0.0097	0.0000
10	a	a	a	0.0016	0.0065	0.0000
11	a	a	a	0.0012	0.0058	0.0000
12	a	a	a	0.0010	0.0051	0.0000
13	a	a	a	0.0004	0.0043	0.0000
14	a	a	a	0.0005	0.0029	0.0000
15	a	a	a	0.0008	0.0022	0.0000
16	a	a	a	0.0077	0.0000	0.0000
17	a	a	a	0.0086	0.0000	0.0000
18	a	a	a	0.0485	0.0000	0.0000
19	a	a	a	0.0128	0.0000	0.0000
20	a	a	a	0.0129	0.0000	0.0000
21	a	a	a	0.0063	0.0000	0.0000
22	a	a	a	0.0040	0.0072	0.0000
23	a	a	a	0.0028	0.0082	0.0000
24	a	a	a	0.0022	0.0039	0.0000
25	a	a	0.0000	0.0016	0.0029	0.0000
26	a	a	0.0000	0.0257	0.0012	0.0000
27	a	a	0.0000	0.0052	0.0000	0.0000
28	a	a	0.0000	0.0032	0.0000	0.0000
29	a	NA	0.0000	0.0029	0.0000	0.0000
30	a	NA	0.0001	0.0028	0.0000	0.0000
31	a	NA	0.0017	NA	0.0000	NA
Mo. Avg. (cfs)	0.0000	a	0.0003	0.0072	0.0039	0.0000

Monthly Discharge

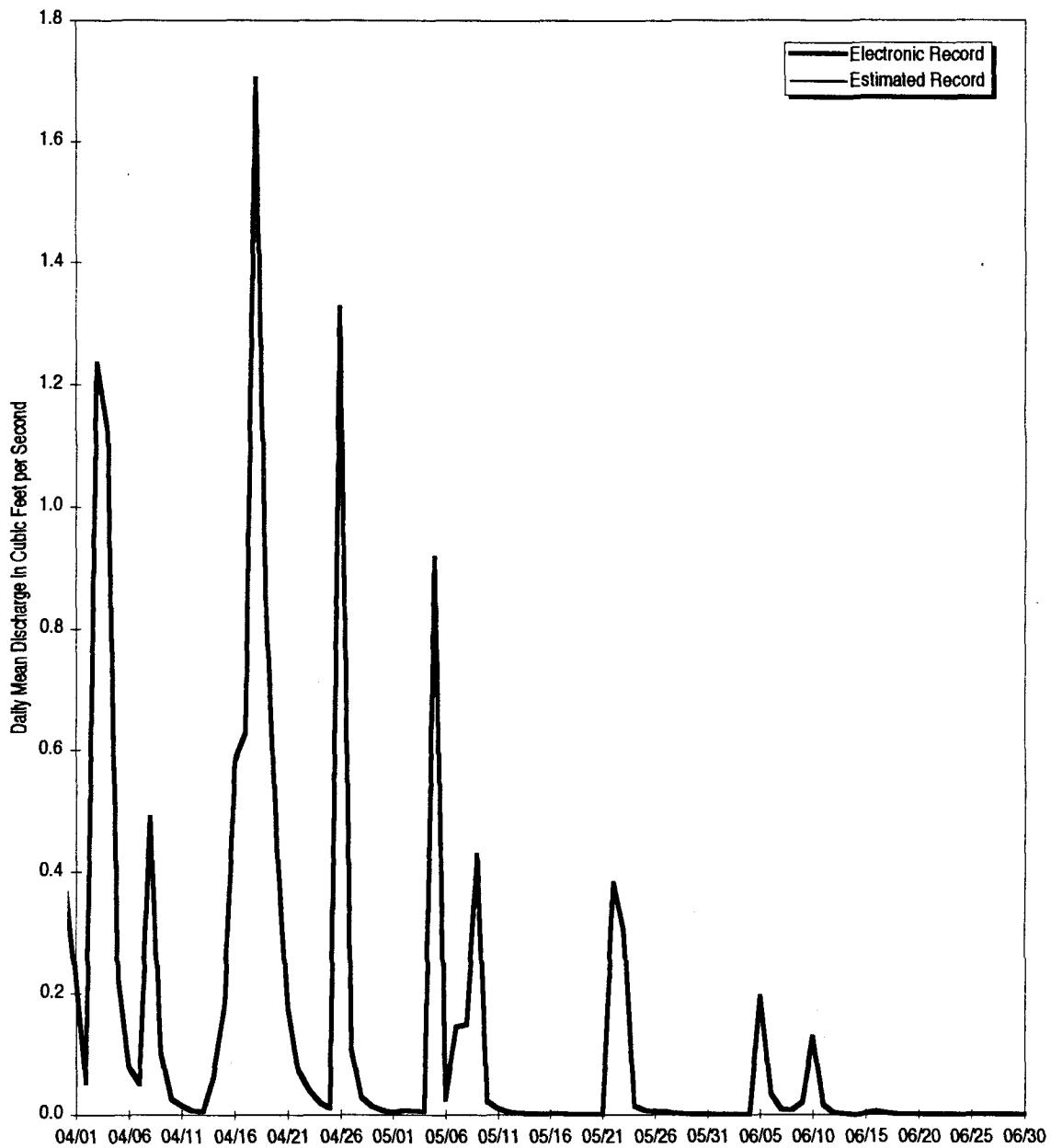
Cubic Feet	0	0	154	18,754	10,487	5
Gallons	0	0	1,150	140,288	78,449	34
Acre Feet	0.00	0.00	0.00	0.43	0.24	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.

b Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW027 is located 39° 53' 12"N, 105° 11' 4"W, at the South Interceptor Ditch above Pond C-2 (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water in the South Interceptor Ditch entering Pond C-2. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.



**Figure 4-21 Mean Daily Discharge at Gaging Station SW027, Water Year 1998
(April, May, June 1998)**

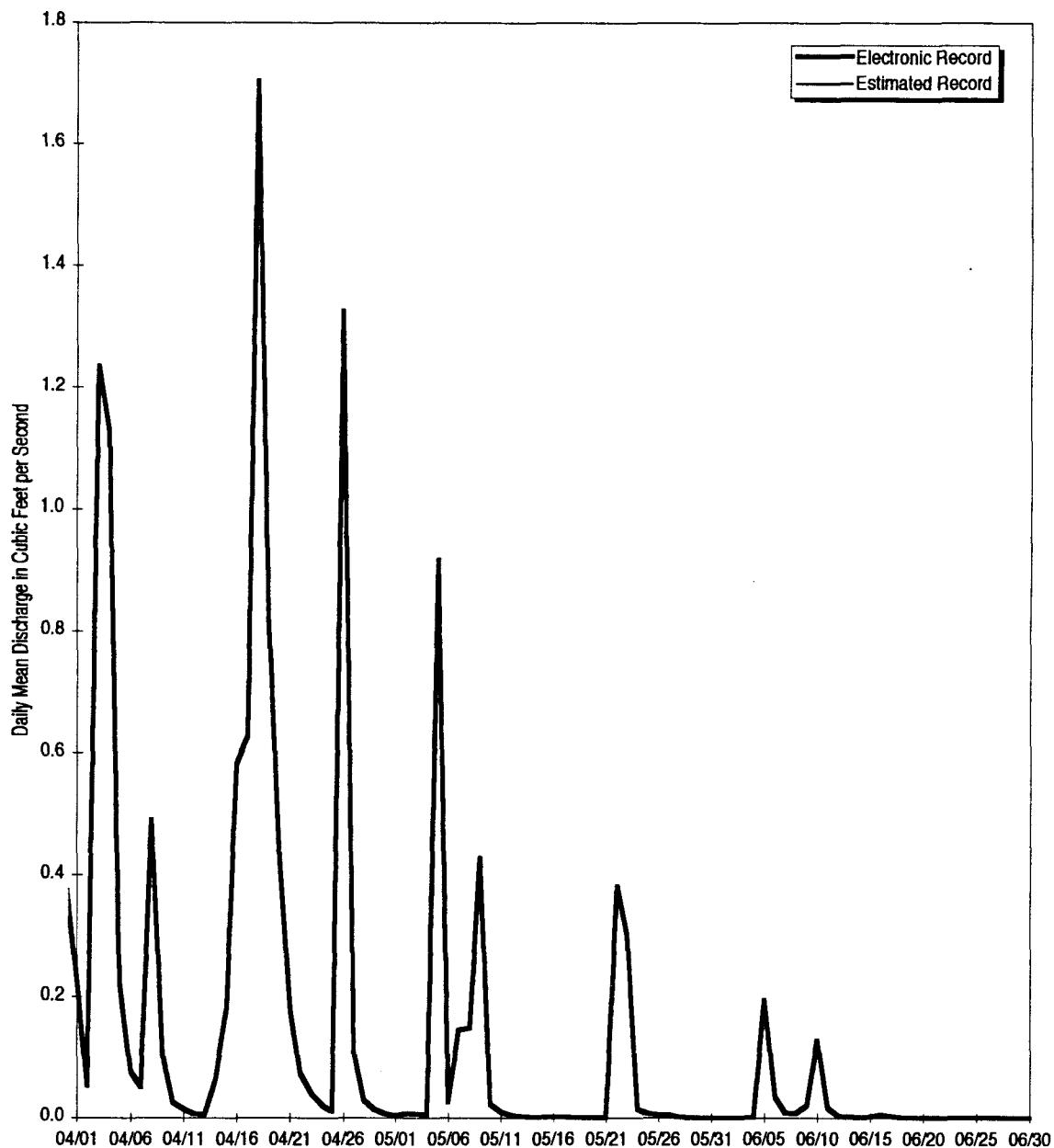
Table 4-21 Gaging Station SW027: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	0.000	0.000	0.221	0.003	0.000
2	0.000	0.000	0.000	0.053	0.007	0.000
3	0.000	0.000	0.000	1.235	0.007	0.000
4	0.000	0.000	0.000	1.129	0.006	0.000
5	0.000	0.000	0.000	0.222	0.918	0.195
6	0.000	0.000	0.000	0.076	0.025	0.033
7	0.000	0.000	0.000	0.050	0.145	0.008
8	0.000	0.000	0.000	0.490	0.149	0.007
9	0.000	0.000	0.000	0.101	0.429	0.021
10	0.000	0.000	0.000	0.026	0.023	0.129
11	0.000	0.000	0.002	0.015	0.010	0.017
12	0.000	0.000	0.023	0.007	0.004	0.003
13	0.000	0.000	0.020	0.006	0.003	0.001
14	0.000	0.000	0.009	0.062	0.002	0.001
15	0.000	0.000	0.004	0.180	0.002	0.002
16	0.000	0.000	0.002	0.583	0.002	0.005
17	0.000	0.000	0.002	0.628	0.002	0.003
18	0.000	0.000	0.143	1.703	0.001	0.000
19	0.000	0.000	0.236	0.826	0.000	0.000
20	0.000	0.000	0.352	0.422	0.000	0.000
21	0.000	0.000	0.563	0.176	0.000	0.000
22	0.000	0.000	0.779	0.073	0.382	0.000
23	0.000	0.000	0.313	0.039	0.303	0.000
24	0.000	0.000	0.077	0.021	0.015	0.000
25	0.000	0.000	0.028	0.011	0.007	0.000
26	0.000	0.000	0.010	1.327	0.006	0.000
27	0.000	0.000	0.005	0.107	0.005	0.000
28	0.000	0.000	0.004	0.029	0.002	0.000
29	0.000	NA	0.003	0.014	0.000	0.000
30	0.000	NA	0.062	0.007	0.000	0.000
31	0.000	NA	0.379	NA	0.000	NA
Mo. Avg. (cfs)	0.000	0.000	0.097	0.328	0.079	0.014

Monthly Discharge						
Cubic Feet	0	0	260,626	850,256	212,065	36,793
Gallons	0	0	1,949,618	6,360,358	1,586,358	275,231
Acre Feet	0.00	0.00	5.98	19.52	4.87	0.84

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station SW022 is located $39^{\circ} 53' 30''\text{N}$, $105^{\circ} 11' 30''\text{W}$, at the Central Avenue Ditch at the Inner East Gate (See Section 4 Map). This location is a RFCA New Source Detection Location and monitors water in the Central Avenue Ditch entering the B-Series Ponds and South Walnut Creek. Storm event samples are collected for selected radionuclides.



**Figure 4-20 Mean Daily Discharge at Gaging Station SW022, Water Year 1998
(April, May, June 1998)**

Table 4-20 Gaging Station SW022 Mean Daily Discharge (Cubic Feet per Second)

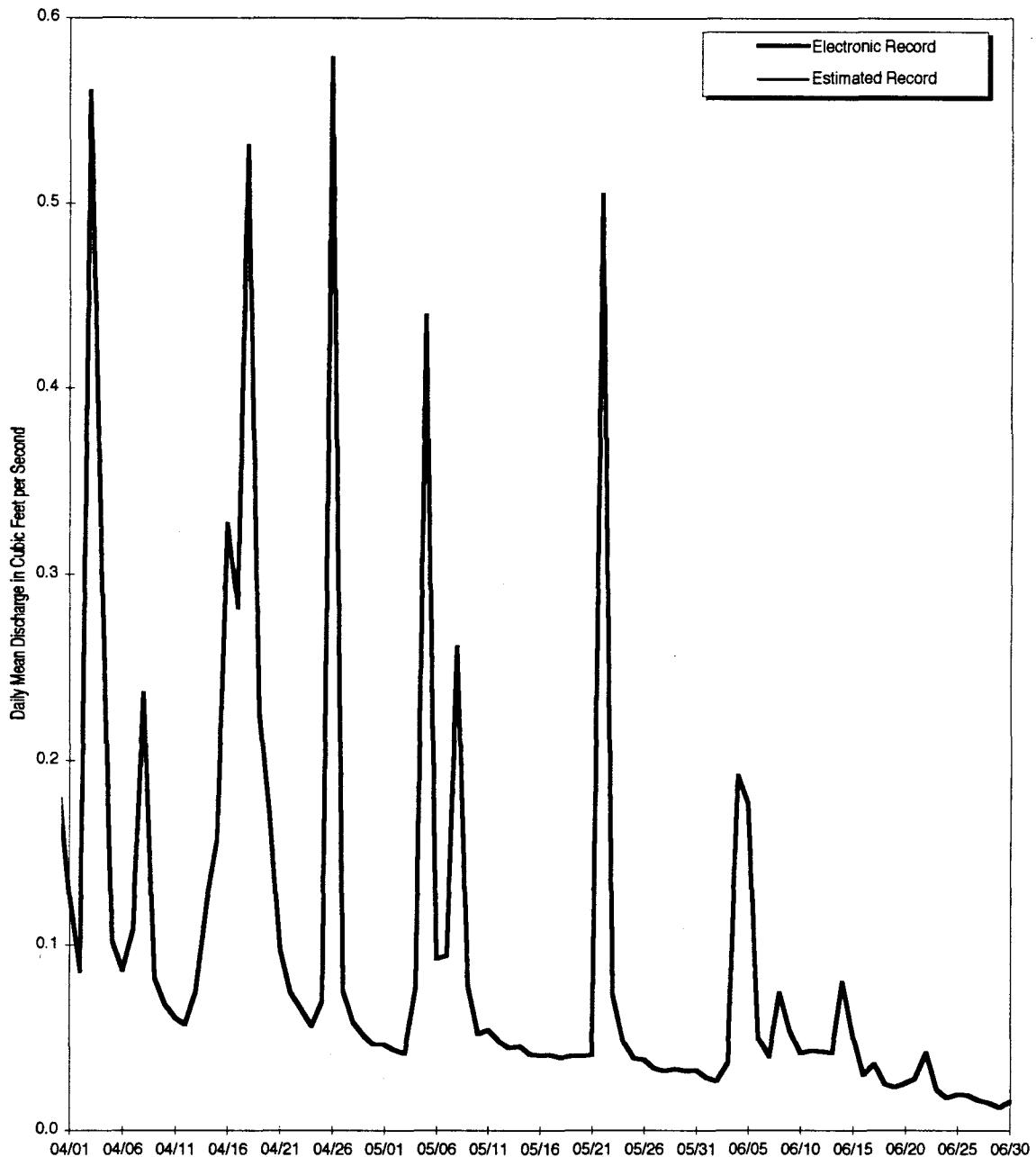
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.066	0.000	0.000	0.0501	0.0000	0.0000
2	0.016	0.000	0.000	0.0330	0.0000	0.0000
3	0.000	0.000	0.000	1.3084	0.0000	0.0000
4	0.000	0.000	0.000	0.3036	0.0084	0.0807
5	0.000	0.000	0.000	0.0533	0.5981	0.1638
6	0.000	0.000	0.000	0.0136	0.0206	0.0006
7	0.000	0.000	0.000	0.0254	0.0670	0.0000
8	0.000	0.000	a	0.3391	0.4546	0.0084
9	0.000	0.000	a	0.0149	0.0416	0.0005
10	0.000	0.000	a	0.0061	0.0000	0.0000
11	0.000	0.000	a	0.0045	0.0000	0.0000
12	0.000	0.000	a	0.0003	0.0000	0.0000
13	0.000	0.000	0.000	0.0000	0.0000	0.0000
14	0.000	0.000	0.000	0.0565	0.0000	0.0187
15	0.000	0.000	0.000	0.2011	0.0000	0.0045
16	0.000	0.000	0.000	0.6106	0.0000	0.0000
17	0.000	0.000	0.062	0.2985	0.0000	0.0000
18	0.000	0.000	0.122	1.1875	0.0000	0.0000
19	0.000	0.000	0.634	0.1706	0.0000	0.0000
20	0.000	0.000	0.393b	0.1799	0.0000	0.0000
21	0.000	0.000	0.322	0.0269	0.0000	0.0000
22	0.000	0.000	0.266	0.0369	0.7692	0.0000
23	0.000	0.000	0.087	0.0142	0.1472	0.0000
24	0.000	0.000	0.020	0.0025	0.0000	0.0000
25	0.000	0.000	0.007	0.0000	0.0000	0.0000
26	0.000	0.000	0.004	1.1234	0.0000	0.0000
27	0.000	0.000	0.020	0.0261	0.0000	0.0000
28	0.000	0.000	0.001	0.0034	0.0000	0.0000
29	0.000	NA	0.000	0.0000	0.0000	0.0000
30	0.000	NA	0.205	0.0206	0.0000	0.0000
31	0.000	NA	0.271	NA	0.0000	NA
Mo. Avg. (cfs)	0.003	0.000	0.093	0.204	0.068	0.009

Monthly Discharge						
Cubic Feet	7,036	25	208,437	52,7994	182,023	23,966
Gallons	52,631	185	1,559,219	3,949,668	1,361,628	179,279
Acre Feet	0.16	0.00	4.78	12.12	4.18	0.55

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.
b Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS40 is located on the concrete spillway east of Tenth Street, south of Building 997. This location is a RFCA Source Location station monitoring water flowing from the 700 area to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-19 Mean Daily Discharge at Gaging Station GS40, Water Year 1998
(April, May, June 1998)**

Table 4-19 Gaging Station GS40: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	No Data	No Data	No Data	0.126	0.046	0.029
2	No Data	No Data	No Data	0.086	0.043	0.027
3	No Data	No Data	No Data	0.560	0.041	0.036
4	No Data	No Data	0.043a	0.306	0.077	0.192
5	No Data	No Data	0.051a	0.102	0.440	0.177
6	No Data	No Data	0.046	0.086	0.093	0.050
7	No Data	No Data	0.078	0.108	0.094	0.040
8	No Data	No Data	0.092	0.236	0.261	0.074
9	No Data	No Data	0.069	0.082	0.078	0.054
10	No Data	No Data	0.043a	0.068	0.052	0.042
11	No Data	No Data	0.051a	0.061	0.054	0.043
12	No Data	No Data	0.050a	0.057	0.048	0.043
13	No Data	No Data	0.041a	0.075	0.045	0.042
14	No Data	No Data	0.035a	0.124	0.045	0.080
15	No Data	No Data	0.033a	0.157	0.041	0.051
16	No Data	No Data	0.034a	0.327	0.041	0.030
17	No Data	No Data	0.101a	0.282	0.041	0.036
18	No Data	No Data	0.133	0.531	0.039	0.025
19	No Data	No Data	0.215a	0.226	0.040	0.023
20	No Data	No Data	0.249	0.171	0.040	0.026
21	No Data	No Data	0.230	0.097	0.041	0.028
22	No Data	No Data	0.297	0.075	0.505	0.042
23	No Data	No Data	0.115	0.065	0.073	0.023
24	No Data	No Data	0.062	0.056	0.048	0.018
25	No Data	No Data	0.052	0.069	0.039	0.019
26	No Data	No Data	0.050	0.578	0.038	0.019
27	No Data	No Data	0.045	0.076	0.034	0.016
28	No Data	No Data	0.044	0.058	0.032	0.015
29	No Data	NA	0.054	0.051	0.033	0.013
30	No Data	NA	0.158	0.047	0.032	0.016
31	No Data	NA	0.184	NA	0.033	NA
Mo. Avg. (cfs)	No Data	No Data	0.095	0.165	0.083	0.044

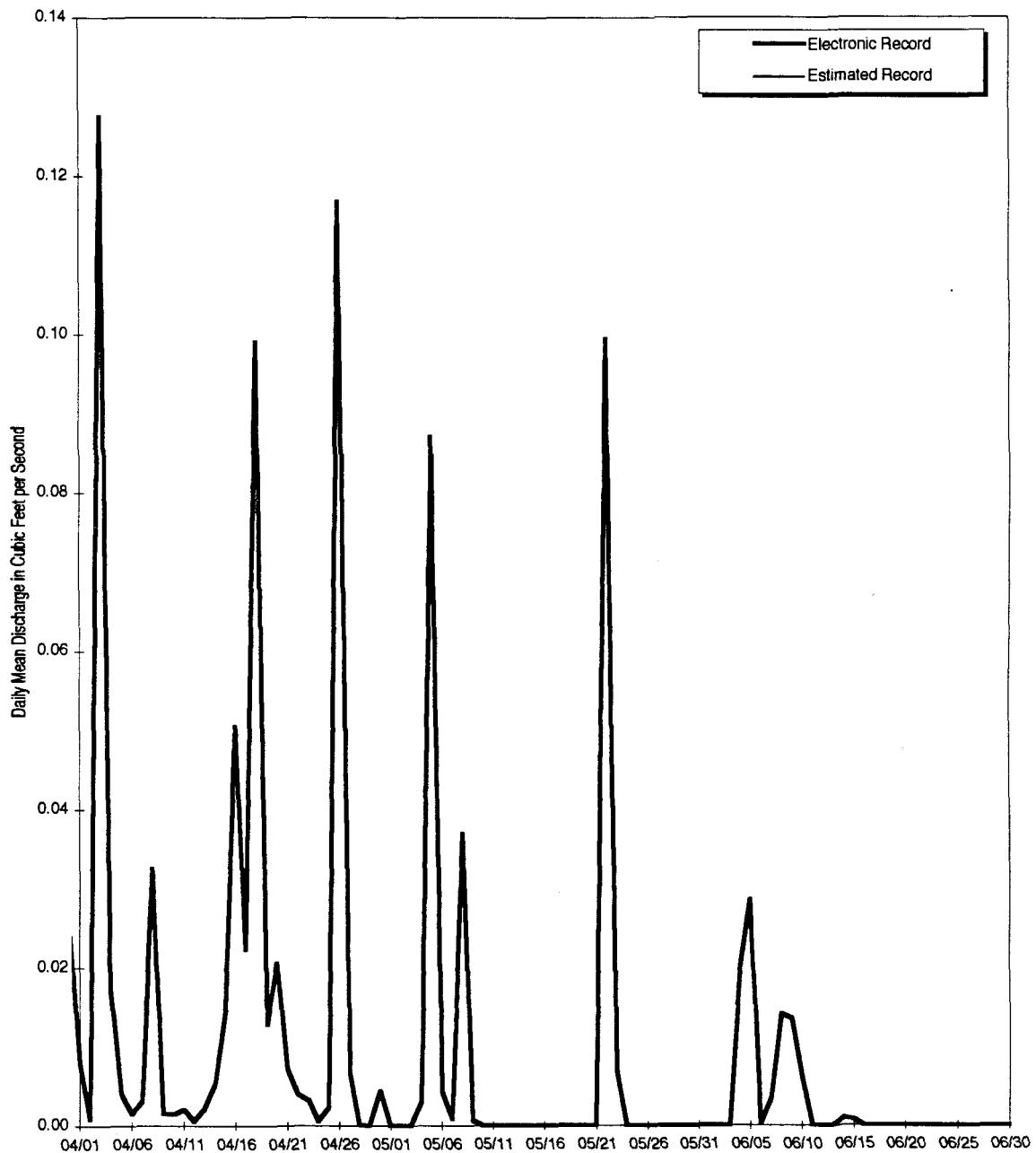
Monthly Discharge

Cubic Feet	0	0	229,716	427,093	221,944	114,705
Gallons	0	0	1,718,395	3,194,879	1,660,257	858,054
Acre Feet	0.00	0.00	5.27	9.80	5.09	2.63

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS39 is located in the drainage ditch northwest of the 904 Pad. This location is a RFCA Source Location station monitoring water flowing from the area of the 903 Pad as well as part of the 904 Pad and contractor yard to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-18 Mean Daily Discharge at Gaging Station GS39, Water Year 1998
(April, May, June 1998)**

Table 4-18 Gaging Station GS39: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	No Data	0.000	0.000	0.008	0.000	0.000
2	No Data	0.000	0.000	0.001	0.000	0.000
3	No Data	0.000	0.000	0.127	0.000	0.000
4	No Data	0.000	0.000	0.017	0.003	0.020
5	No Data	0.000	0.000	0.004	0.087	0.029
6	No Data	0.000	b	0.002	0.004	0.000
7	No Data	0.000	0.051a	0.003	0.001	0.003
8	No Data	0.000	0.001a	0.033	0.037	0.014
9	No Data	0.000	0.001a	0.002	0.001	0.014
10	No Data	0.000	0.000a	0.001	0.000	0.006
11	No Data	0.000	0.000a	0.002	0.000	0.000
12	No Data	0.000	0.001a	0.001	0.000	0.000
13	No Data	0.000	0.000	0.002	0.000	0.000
14	No Data	0.000	0.000	0.005	0.000	0.001
15	0.002a	0.000	0.000	0.015	0.000	0.001
16	0.000	0.001	0.000	0.051	0.000	0.000
17	0.002a	0.000	0.012	0.022	0.000	0.000
18	0.000a	0.000	0.009	0.099	0.000	0.000
19	b	0.000	0.076	0.013	0.000	0.000
20	b	0.000	0.039	0.021	0.000	0.000
21	0.000	0.000	0.026	0.007	0.000	0.000
22	0.000	0.000	0.018	0.004	0.099	0.000
23	0.000	0.000	0.009	0.003	0.007	0.000
24	0.000	0.000	0.003	0.001	0.000	0.000
25	0.000	0.000	0.001	0.002	0.000	0.000
26	0.000	0.000	0.002	0.117	0.000	0.000
27	0.000	0.000	0.000	0.007	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	NA	0.000	0.000	0.000	0.000
30	0.000	NA	0.013	0.004	0.000	0.000
31	0.000	NA	0.026	NA	0.000	NA
Mo. Avg. (cfs)	0.000	0.000	0.010	0.019	0.008	0.003

Monthly Discharge

Cubic Feet	303	90	25,157	49,542	20,672	7,536
Gallons	2,270	677	188,188	370,599	154,634	56,373
Acre Feet	0.01	0.00	0.58	1.14	0.47	0.17

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS38 is located in Central Avenue Ditch northwest of Building 889. This location is a RFCA Source Location station monitoring water flowing from a drainage basin in the southwest quadrant of the Industrial Area to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.

Data unavailable at this time.

***Figure 4-17 Mean Daily Discharge at Gaging Station GS38, Water Year 1998
(April, May, June 1998)***

Table 4-17 Gaging Station GS38: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	No Data	0.000	0.000	b	b	b
2	No Data	0.000	0.000	b	b	b
3	No Data	0.000	0.000	b	b	b
4	No Data	0.000	0.000	b	b	b
5	No Data	0.000	0.000	b	b	b
6	No Data	0.000	0.007	b	b	b
7	No Data	0.000	0.067a	b	b	b
8	No Data	0.000	0.067a	b	b	b
9	No Data	0.000	0.002a	b	b	b
10	No Data	0.000	0.003a	b	b	b
11	No Data	0.000	0.006	b	b	b
12	No Data	0.000	0.001	b	b	b
13	No Data	0.000	0.000	b	b	b
14	No Data	0.000	0.000	b	b	b
15	No Data	0.000	0.000	b	b	b
16	No Data	0.000	0.000	b	b	b
17	No Data	0.000	0.050	b	b	b
18	No Data	0.000	0.248	b	b	b
19	No Data	0.000	0.289	b	b	b
20	No Data	0.000	0.194	b	b	b
21	No Data	0.000	0.184	b	b	b
22	No Data	0.000	0.124	b	b	b
23	No Data	0.000	0.019	b	b	b
24	NNo Data	0.000	0.000	b	b	b
25	No Data	0.000	0.000	b	b	b
26	No Data	0.000	0.000	b	b	b
27	No Data	0.000	0.000	b	b	b
28	0.000	0.000	0.000	b	b	b
29	0.000	NA	0.000	b	b	b
30	0.000	NA	0.116	b	b	b
31	0.000	NA	0.141	N/A	b	N/A
Mo. Avg. (cfs)	0.000	0.000	0.049			

Monthly Discharge

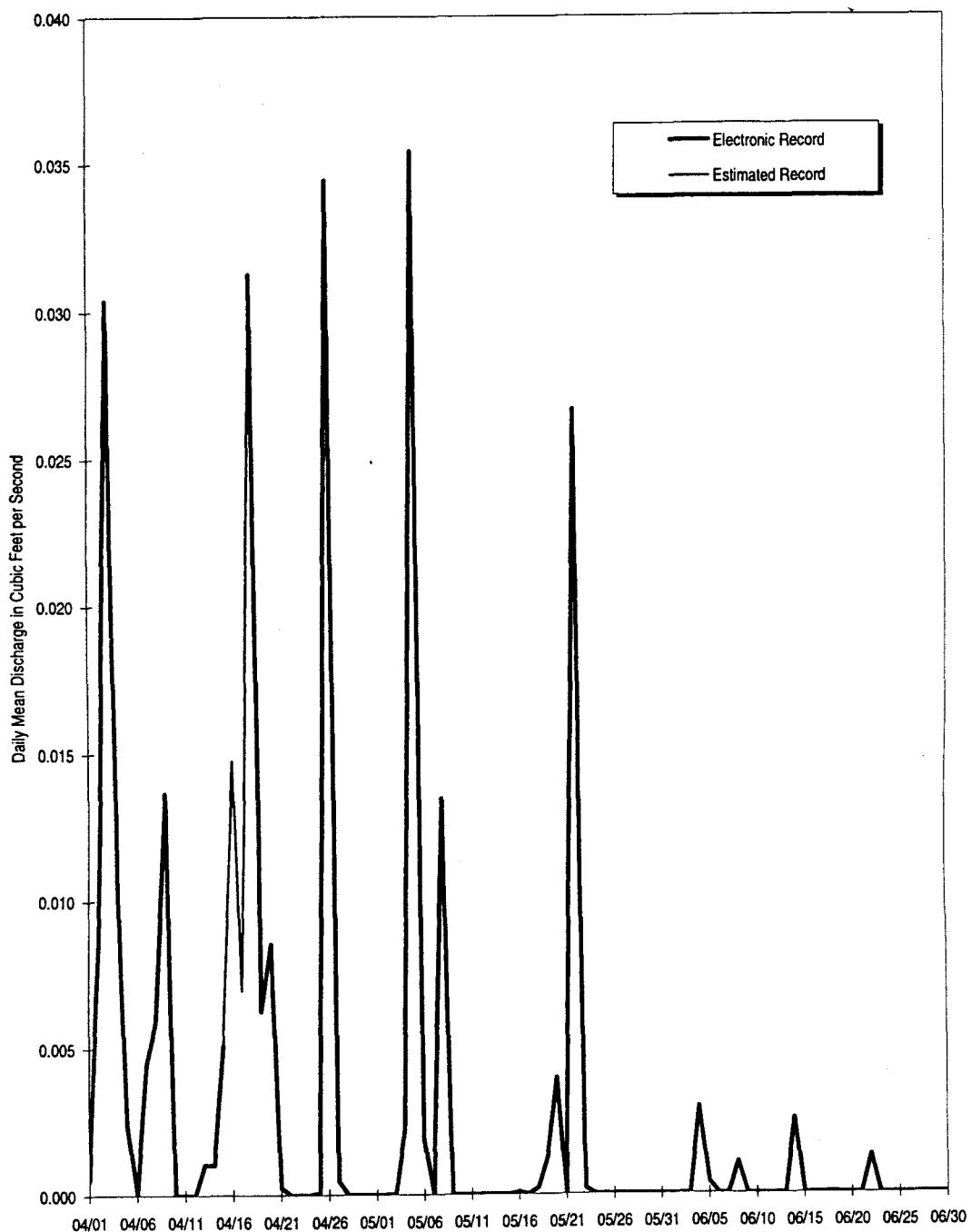
Cubic Feet	0	0	131,039	b	b	b
Gallons	0	0	980,242	b	b	b
Acre Feet	0.00	0.00	3.01	b	b	b

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b Data unavailable at this time.

Gaging Station GS37 is located in the Central Avenue Ditch north of Building 443. This station is a RFCA Performance Monitoring station monitoring runoff from the Building 123 area. Storm event samples are collected for selected radionuclides and water quality parameters.



**Figure 4-16 Mean Daily Discharge at Gaging Station GS37, Water Year 1998
(April, May, June 1998)**

Table 4-16 Gaging Station GS37: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0084	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0304	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0107	0.0022	0.0030
5	0.0000	0.0000	0.0000	0.0024	0.0354	0.0004
6	0.0000	0.0000	0.0000	0.0000	0.0019	0.0000
7	0.0000	0.0000	0.0034a	0.0045	0.0000	0.0000
8	0.0000	0.0000	0.0002a	0.0059	0.0135	0.0011
9	0.0000	0.0000	0.0000	0.0137	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0011	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0010	0.0000	0.0026
15	0.0002	0.0000	0.0000	0.0051	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0148a	0.0001	0.0000
17	0.0003	0.0000	0.0042	0.0070a	0.0000	0.0000
18	0.0000	0.0000	0.0151	0.0313	0.0002	0.0000
19	0.0000	0.0000	0.0084a	0.0062	0.0013	0.0000
20	0.0000	0.0000	0.0065a	0.0085	0.0040	0.0000
21	0.0000	0.0000	0.0077a	0.0003	0.0000	0.0000
22	0.0000	0.0000	0.0047	0.0000	0.0267	0.0013
23	0.0000	0.0000	0.0005	0.0000	0.0002	0.0000
24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0344	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.0000	NA	0.0004	0.0000	0.0000	0.0000
30	0.0000	NA	0.0081	0.0000	0.0000	0.0000
31	0.0000	NA	b	NA	0.0000	NA
Mo. Avg. (cfs)	0.000	0.000	0.002	0.006	0.003	0.000

Monthly Discharge

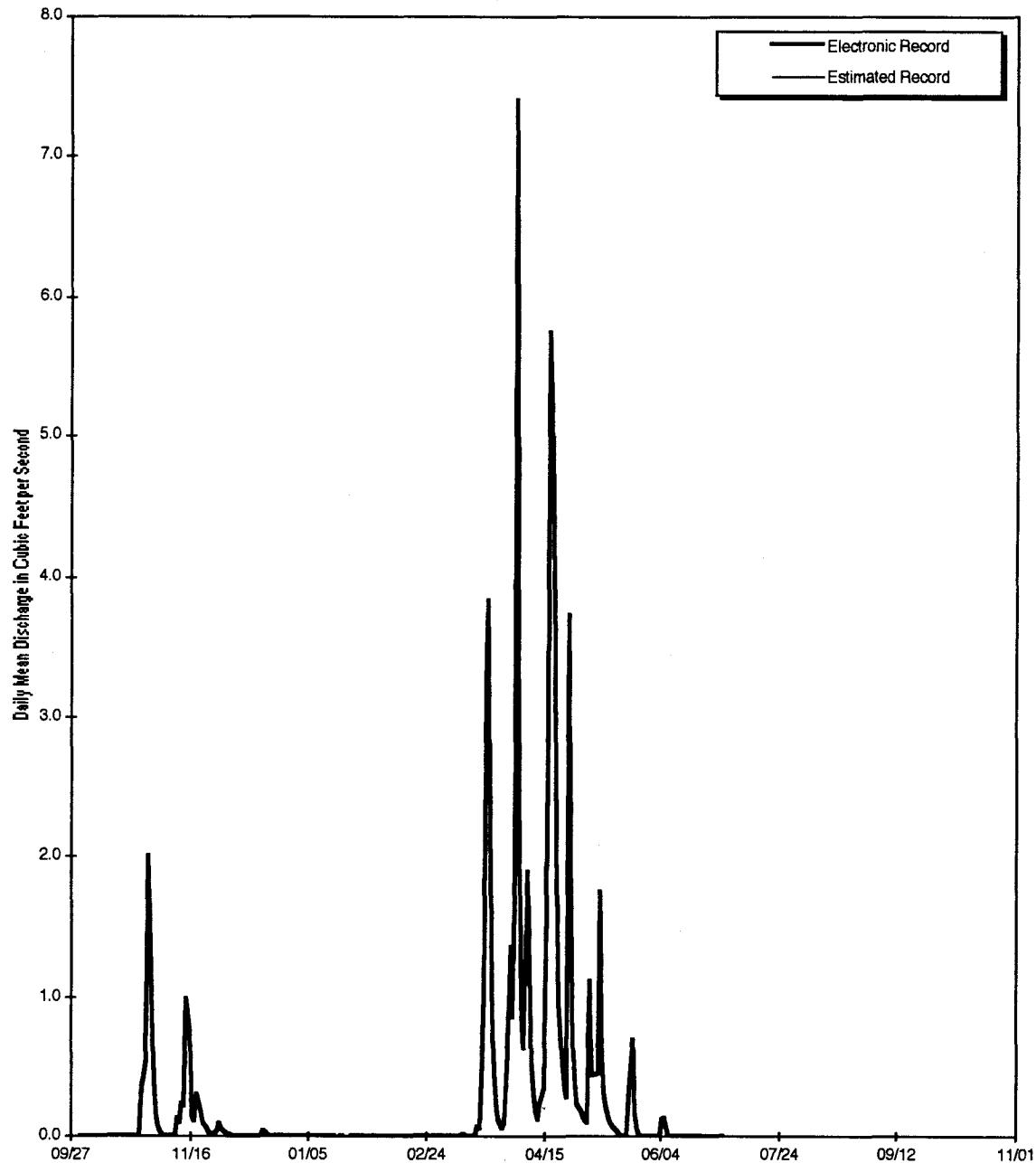
Cubic Feet	65	3	5,108	16,131	7,391	723
Gallons	486	26	38,214	120,667	55,289	5,412
Acre Feet	0.00	0.00	0.12	0.37	0.17	0.02

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS35 is located on McKay Ditch at the confluence with Walnut Creek. This station is a RFCA Source Location station monitoring runoff from the McKay Ditch drainage basin reaching Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-15 Mean Daily Discharge at Gaging Station GS35, Water Year 1998
(April, May, June 1998)**

Table 4-15 Gaging Station GS35: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	0.000	0.000	1.362	0.165	0.000
2	0.000	0.000	0.000	0.846	0.128	0.000
3	0.000	0.000	0.000	1.943	0.102	0.000
4	0.000	0.000	0.000	7.393	0.087	0.000
5	0.000	0.000	0.000	2.431	1.107	0.123
6	0.000	0.000	0.000	0.958	0.426	0.125
7	0.000	0.000	0.000	0.622	0.429	0.000
8	0.000	0.000	0.000	1.901	0.441	0.000
9	0.000	0.000	0.000	1.395	1.758	0.000
10	0.000	0.000	0.000	0.518	0.551	0.000
11	0.000	0.000	0.000	0.306	0.302	0.000
12	0.000	0.000	0.011	0.189	0.198	0.000
13	0.000	0.000	0.006	0.123	0.127	0.000
14	0.000	0.000	0.000	0.229	0.090	0.000
15	0.000	0.000	0.000	0.345	0.064	0.000
16	0.000	0.000	0.000	1.276	0.035	0.000
17	0.000a	0.000	0.000	3.052	0.019	0.000
18	0.000a	0.000	0.062	5.743	0.000	0.000
19	0.000	0.000	0.053	5.162	0.000	0.000
20	0.000	0.000	0.405	3.999	0.000	0.000
21	0.000a	0.000	1.008	2.086	0.000	0.000
22	0.000a	0.000	3.235	0.955	0.321	0.000
23	0.000	0.000	3.838	0.518	0.688	0.000
24	0.000	0.000	1.050	0.334	0.155	0.000
25	0.000	0.000	0.444	0.269	0.050	0.000
26	0.000	0.000	0.217	3.730	0.000	0.000
27	0.000	0.000	0.118	1.571	0.000	0.000
28	0.000	0.000	0.077	0.644	0.000	0.000
29	0.000	NA	0.048	0.366	0.000	0.000
30	0.000	NA	0.090	0.225	0.000	0.000
31	0.000	NA	0.788	NA	0.000	NA
Mo. Avg. (cfs)	0.000	0.000	0.369	1.683	0.234	0.008

Monthly Discharge

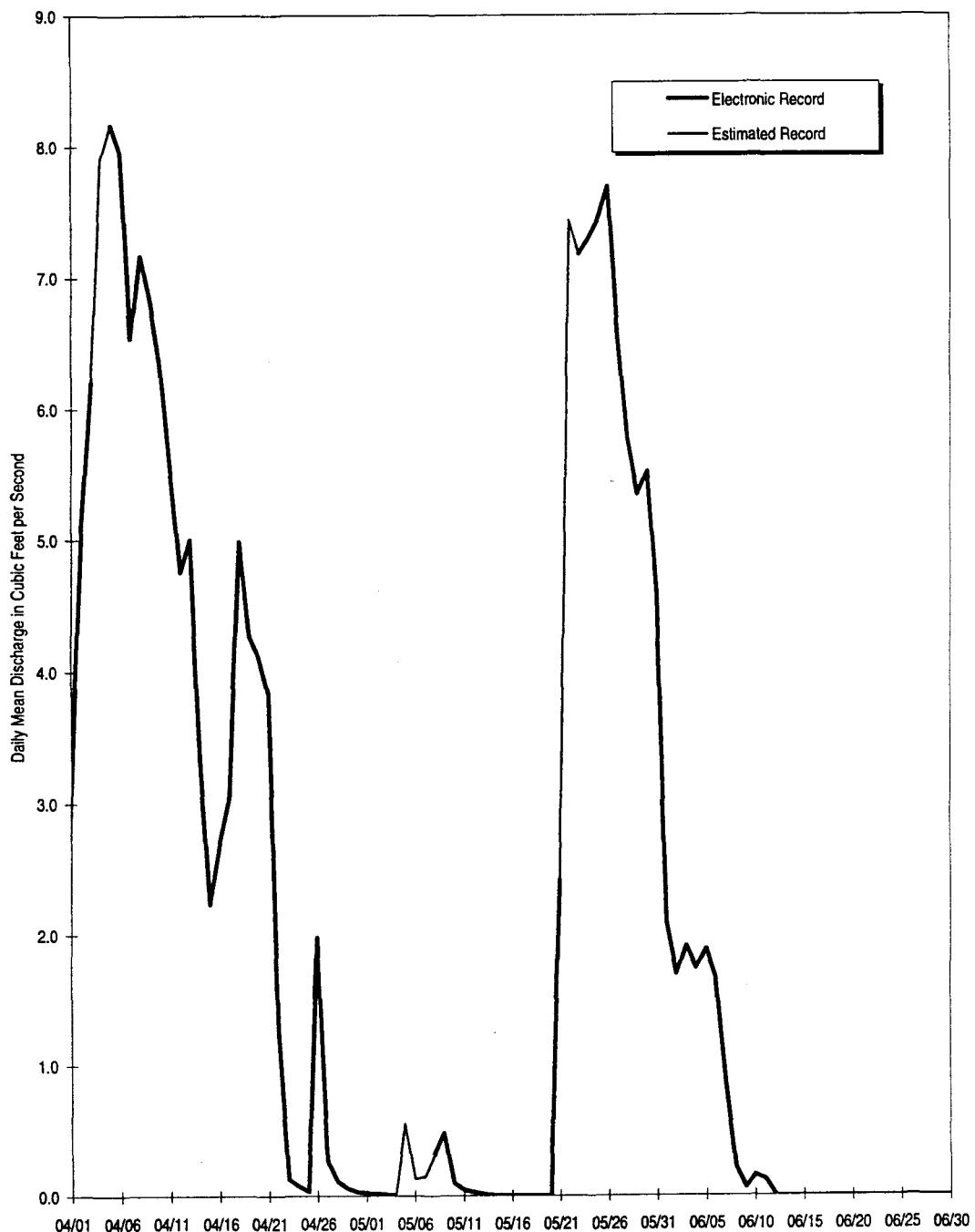
Cubic Feet	0	0	989,168	4,362,525	625,765	21,458
Gallons	0	0	7,399,493	32,633,958	4,681,049	160,515
Acre Feet	0.00	0.00	22.70	100.13	14.36	0.49

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS34 is located on Walnut Creek upstream of the confluence with McKay Ditch. This station is a RFCA Source Location station monitoring water discharged from Ponds A-4, B-5, and the Landfill Pond as well as runoff from the No Name Gulch and upper Walnut Creek drainage basins. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-14 Mean Daily Discharge at Gaging Station GS34, Water Year 1998
(April, May, June 1998)**

Table 4-14 Gaging Station GS34 Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	No Data	No Data	a	3.128	0.021	2.095
2	No Data	No Data	a	5.113	0.018	1.700
3	No Data	No Data	a	6.204	0.012	1.917
4	No Data	No Data	a	7.906	0.016b	1.750
5	No Data	0.000	0.000	8.169	0.553b	1.894
6	No Data	0.000	0.001	7.941	0.129b	1.682
7	No Data	0.000	0.000	6.540	0.148b	0.871
8	No Data	0.000	0.000	7.169	0.319	0.218
9	No Data	0.000	0.000	6.823	0.482	0.062
10	No Data	0.000	0.000	6.343	0.099	0.159
11	No Data	0.000	0.000	5.532	0.047	0.125
12	No Data	1.758	0.000	4.758	0.029	0.006
13	No Data	3.409	0.000	5.004	0.014	0.000b
14	No Data	3.397	0.000	3.345	0.004	0.000b
15	No Data	3.238	0.000	2.240	0.003	0.000b
16	No Data	3.326	0.000	2.688	0.002	0.000b
17	No Data	2.394	0.000	3.028	0.000	0.000b
18	No Data	1.897	0.063	4.990	0.000	0.000b
19	No Data	1.936	0.157	4.292	0.000	0.000b
20	No Data	1.988	0.370	4.130	0.000	0.000b
21	No Data	1.641	0.533	3.838	2.425b	0.000b
22	No Data	1.285	0.875	1.260	7.435b	0.000b
23	No Data	1.377	0.693	0.131	7.178	0.000b
24	No Data	0.018	0.209	0.075	7.295	0.000b
25	No Data	0.013	0.091	0.034	7.439	0.000b
26	No Data	0.015b	0.050	1.984	7.692	0.000b
27	No Data	0.016b	0.038	0.265	6.577	0.000b
28	No Data	0.006b	0.040	0.110	5.771	0.000b
29	No Data	NA	0.044	0.060	5.347	0.000b
30	No Data	NA	0.158	0.033	5.524	0.000b
31	No Data	NA	0.418	NA	4.577	NA
Mo. Avg. (cfs)	No Data	1.155	0.139	3.771	2.231	0.416

Monthly Discharge						
Cubic Feet	0	2,394,439	323,274	9,774,689	5,975,112	1,078,303
Gallons	0	17,911,650	2,418,255	73,119,754	44,696,947	8,066,269
Acre Feet	0.00	54.96	7.42	224.36	137.15	24.75

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.
b Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS33 is located on No Name Gulch at the confluence with Walnut Creek. This station is a RFCA Source Location station monitoring water discharge from the Landfill Pond as well as runoff from the No Name Gulch drainage basin reaching Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.

Data unavailable at this time.

***Figure 4-13 Mean Daily Discharge at Gaging Station GS33, Water Year 1998
(April, May, June 1998)***

Table 4-13 Gaging Station GS33: Mean Daily Discharge (Cubic Feet per Second)

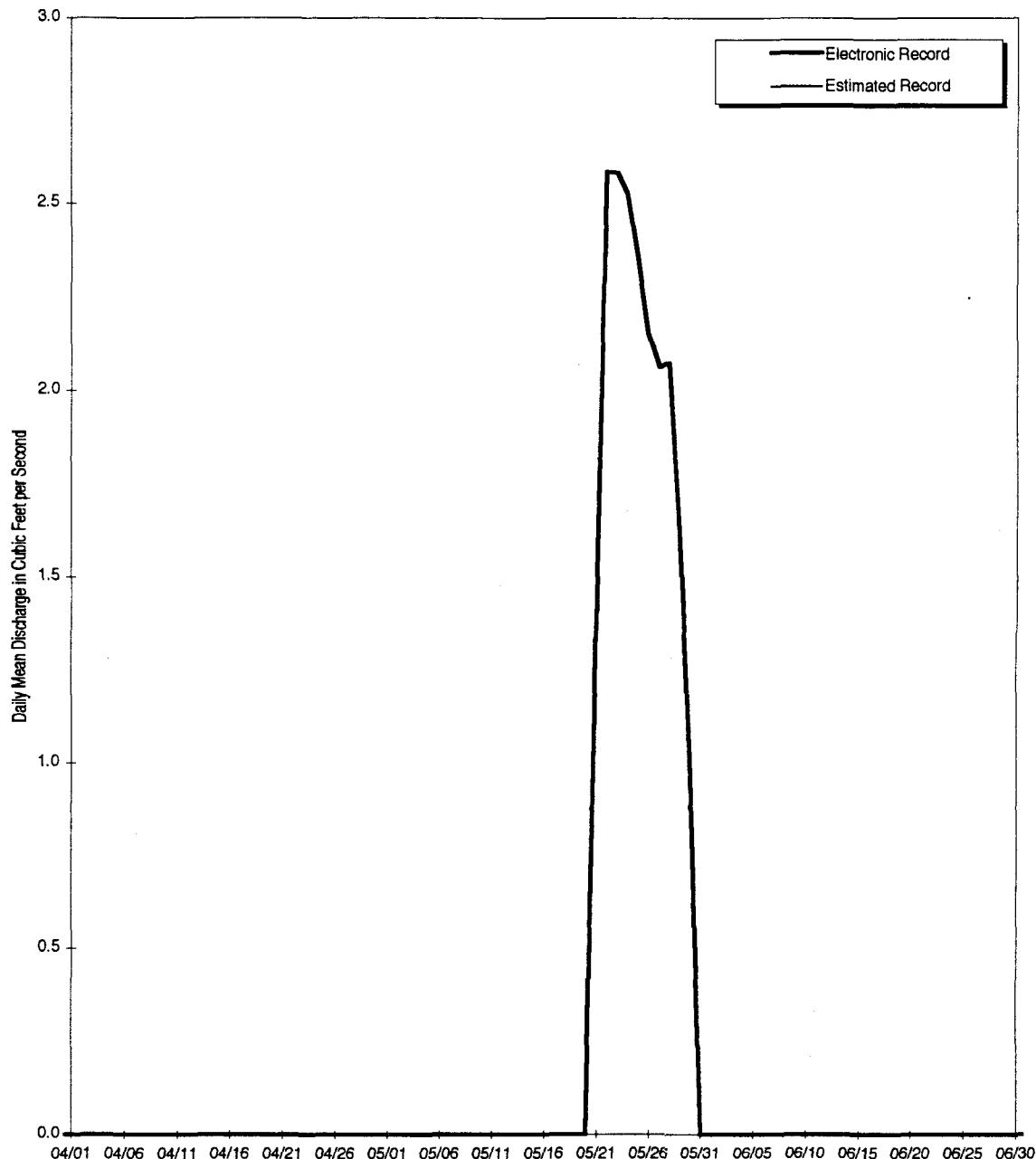
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	a	0.000	c	c	c
2	0.000	a	0.000	c	c	c
3	a	a	0.000	c	c	c
4	a	a	0.000	c	c	c
5	a	a	0.000	c	c	c
6	a	a	0.000	c	c	c
7	0.000	a	0.000	c	c	c
8	0.000	a	a	c	c	c
9	0.000	a	a	c	c	c
10	0.000	a	a	c	c	c
11	0.000	a	a	c	c	c
12	0.000	a	a	c	c	c
13	0.000	a	0.024	c	c	c
14	0.000	a	0.016	c	c	c
15	0.000	a	0.008	c	c	c
16	0.000	a	0.004	c	c	c
17	0.000	0.002b	0.006	c	c	c
18	0.000	0.001b	0.148	c	c	c
19	0.000	0.000b	0.128b	c	c	c
20	0.000	0.000	0.337b	c	c	c
21	0.000	0.000	0.485	c	c	c
22	0.000	0.000	0.681	c	c	c
23	0.000	0.000	0.541	c	c	c
24	0.000	0.000	0.163	c	c	c
25	0.000	0.000	0.077	c	c	c
26	0.000	0.000	0.046	c	c	c
27	0.000	0.000	0.037	c	c	c
28	0.001b	0.000	0.029	c	c	c
29	0.001b	NA	0.023	c	c	c
30	0.002b	NA	0.104	c	c	c
31	0.000b	NA	0.304	N/A	c	N/A
Mo. Avg. (cfs)	0.000	0.000	0.122	c	c	c

Monthly Discharge					
Cubic Feet	316	246	272,938	c	c
Gallons	2,366	1,839	2,041,719	c	c
Acre Feet	0.01	0.01	6.26	c	c

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.
b Contains data estimated from field observations and electronic record at adjacent or comparable gages.
c Data unavailable at this time.

Gaging Station GS31 is located at State Plane 2089268; 747506, at the Pond C-2 Outfall (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond C-2. This station collects samples for selected radionuclides using continuous flow-paced sampling.



***Figure 4-12 Mean Daily Discharge at Gaging Station GS31, Water Year 1998
(April, May, June 1998)***

Table 4-12 Gaging Station GS31: Mean Daily Discharge (Cubic Feet per Second)

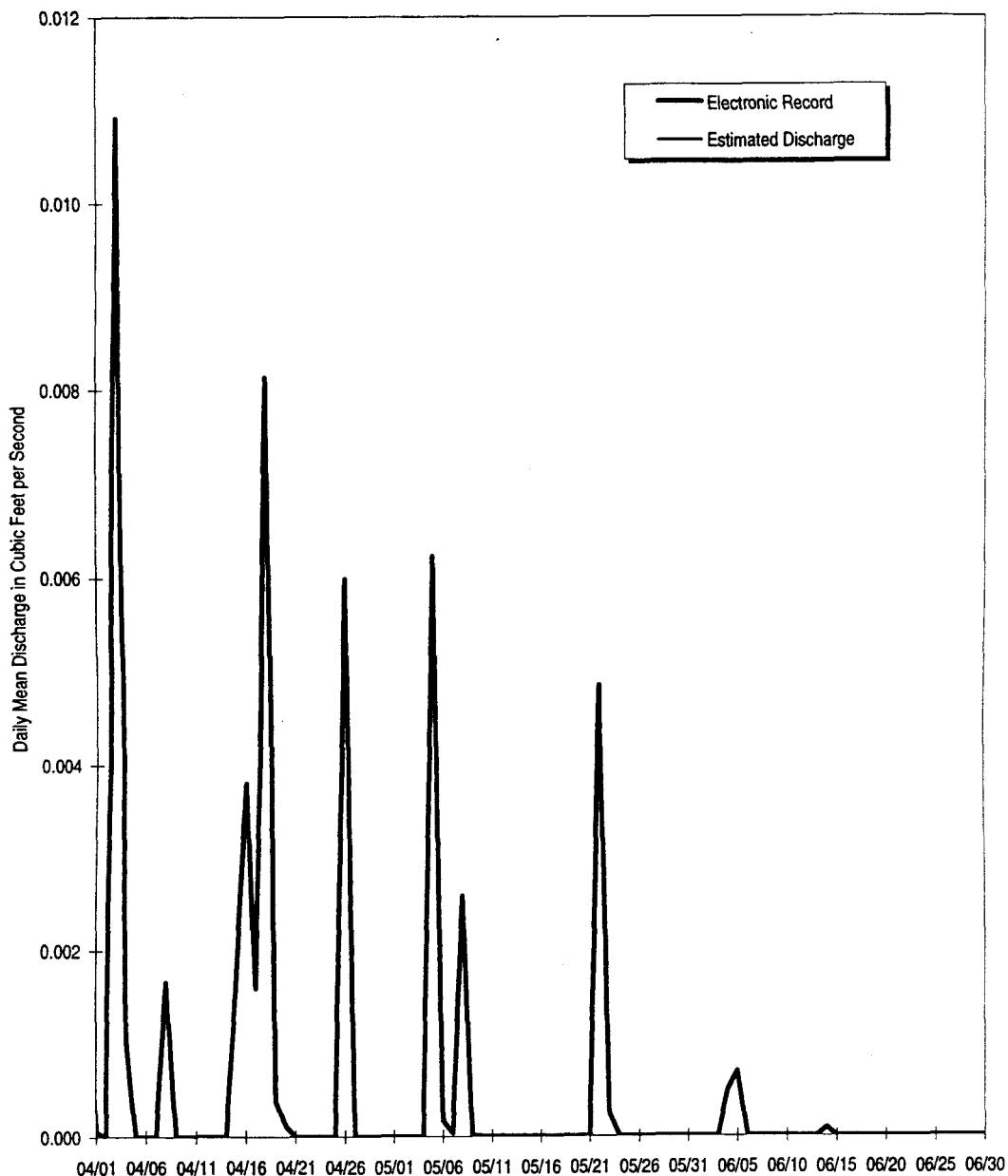
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	1.447	0.000
22	0.000	0.000	0.000	0.000	2.584	0.000
23	0.000	0.000	0.000	0.000	2.583	0.000
24	0.000	0.000	0.000	0.000	2.527	0.000
25	0.000	0.000	0.000	0.000	2.356	0.000
26	0.000	0.000	0.000	0.000	2.158	0.000
27	0.000	0.000	0.000	0.000	2.067	0.000
28	0.000	0.000	0.000	0.000	2.076	0.000
29	0.000	NA	0.000	0.000	1.624	0.000
30	0.000	NA	0.000	0.000	1.010	0.000
31	0.000	NA	0.000	NA	0.000	NA
Mo. Avg. (cfs)	0.000	0.000	0.000	0.000	0.659	0.000

Monthly Discharge

Cubic Feet	0	0	0	0	1,765,338	0
Gallons	0	0	0	0	13,205,650	0
Acre Feet	0.00	0.00	0.00	0.00	40.52	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS27 is located at State Plane 2080529; 751216, at the small drainage ditch NW of Building 884 (See Section 4 Map). This location is a Performance and Best Management Practices Monitoring Location and monitors water draining from the Building 889 area. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-11 Mean Daily Discharge at Gaging Station GS27, Water Year 1998
(April, May, June 1998)**

Table 4-11 Gaging Station GS27: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0109	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0010	0.0000	0.0005
5	0.0000	0.0000a	0.0000	0.0000	0.0062	0.0007
6	0.0000	0.0000a	0.0000	0.0000	0.0002	0.0000
7	0.0000	0.0000a	0.0000	0.0000	0.0000	0.0000
8	0.0001	0.0000a	0.0005	0.0017	0.0026	0.0000
9	0.0000	b	0.0001	0.0000	0.0000	0.0000
10	0.0000	b	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
15	0.0000	0.0000	0.0000	0.0016	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0038	0.0000	0.0000
17	0.0003	0.0000	0.0002	0.0016	0.0000	0.0000
18	0.0000	0.0000	0.0007	0.0081	0.0000	0.0000
19	0.0000	0.0000	0.0035a	0.0004	0.0000	0.0000
20	0.0000	0.0000	0.0042a	0.0001	0.0000	0.0000
21	0.0000	0.0000	0.0039	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0015	0.0000	0.0049	0.0000
23	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000
24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0060	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.0000	NA	0.0000	0.0000	0.0000	0.0000
30	0.0000	NA	0.0015	0.0000	0.0000	0.0000
31	0.0000	NA	0.0019	NA	0.0000	NA
Mo. Avg. (cfs)	0.000	0.000	0.001	0.001	0.000	0.000

Monthly Discharge

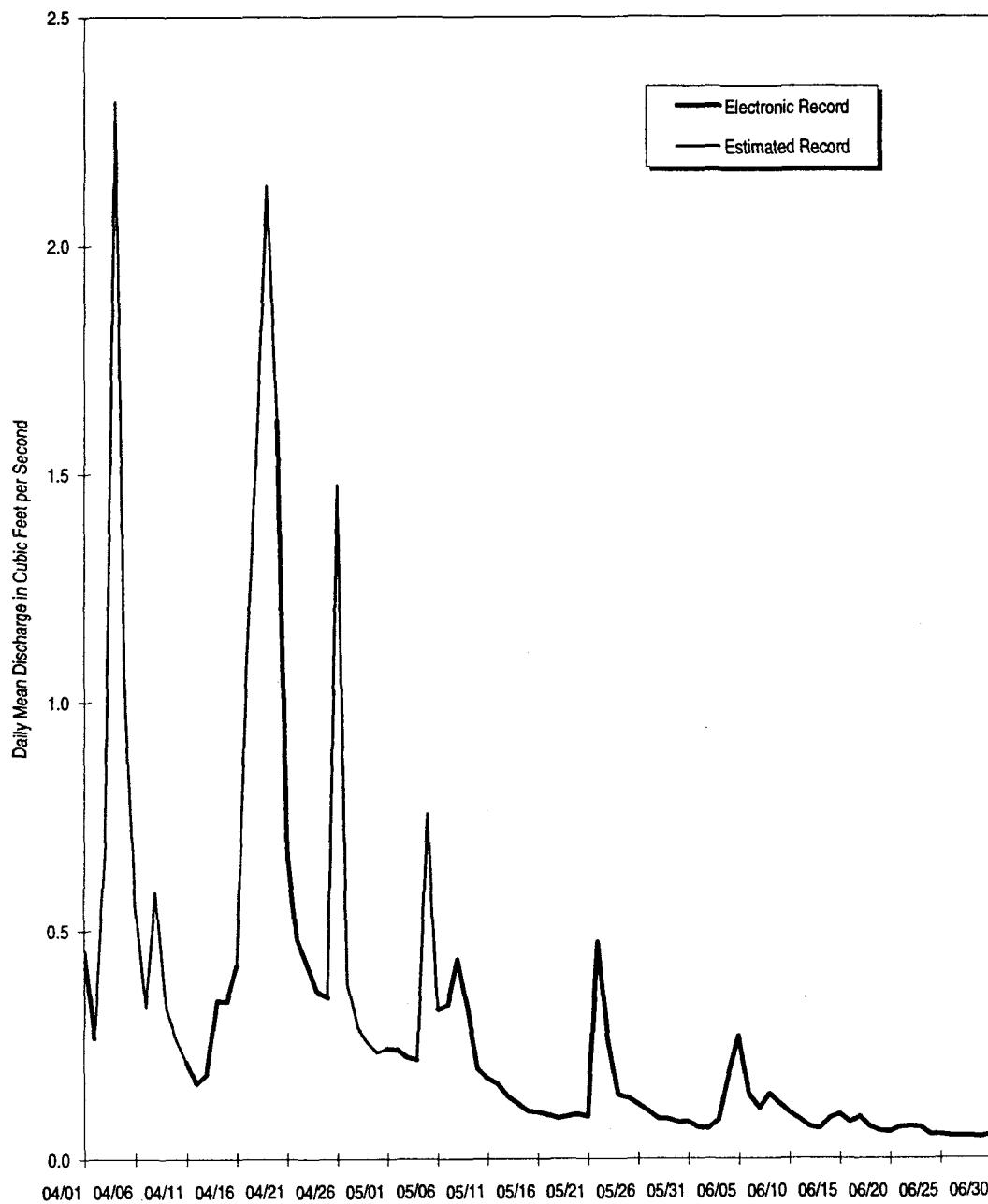
Cubic Feet	32	0	1,558	3,046	1,222	111
Gallons	240	0	11,652	22,786	9,139	830
Acre Feet	0.001	0.000	0.036	0.070	0.028	0.003

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b Bad data because of equipment failures.

Gaging Station GS16 is located $39^{\circ} 53' 1''N$, $105^{\circ} 12' 8''W$ along Antelope Springs Gulch, south of Woman Creek (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water entering Woman Creek from Antelope Springs. No samples are collected at this location.



**Figure 4-10 Mean Daily Discharge at Gaging Station GS16, Water Year 1998
(April, May, June 1998)**

Table 4-10 Gaging Station GS16: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.235	0.183	0.420	0.454	0.243	0.068
2	0.198	0.154	0.498	0.265	0.240	0.064
3	0.149	0.171	a	0.668b	0.223	0.086
4	0.185	0.166	a	2.314b	0.218	0.186
5	0.179	0.158	a	0.979b	0.757	0.270
6	0.516	0.171	a	0.558b	0.328	0.141
7	0.228	0.172	0.455	0.332b	0.338	0.111
8	0.312	0.160	0.401	0.585b	0.438	0.143
9	0.415	0.161	0.382	0.330b	0.329	0.121
10	0.478	0.152	0.429	0.262b	0.199	0.101
11	0.262	0.178	0.441	0.213	0.177	0.087
12	0.157	0.227	0.505	0.164	0.164	0.070
13	0.154	0.229	0.356	0.186	0.137	0.065
14	0.151	0.163	0.266	0.347	0.122	0.089
15	0.216	0.165	0.243	0.345	0.106	0.098
16	0.156	0.201	0.228	0.424	0.103	0.079
17	0.293	0.199	0.300	1.082b	0.098	0.092
18	0.229	0.166	0.309	1.578b	0.090	0.070
19	0.220	0.163	0.350	2.130b	0.094	0.060
20	0.151	0.175	0.376	1.616	0.099	0.058
21	0.196	0.209	0.487	0.667	0.094	0.069
22	0.330	0.155	1.010	0.482	0.477	0.070
23	0.439	0.160	0.963	0.424	0.266	0.069
24	0.422	0.157	0.327	0.367	0.141	0.053
25	0.306	0.126	0.239	0.354	0.134	0.052
26	0.327	0.177	0.205	1.478b	0.120	0.049
27	0.305	0.299	0.198	0.385b	0.105	0.049
28	0.178	0.433	0.184	0.288b	0.088	0.049
29	0.197	NA	0.187	0.256b	0.087	0.047
30	0.184	NA	0.308	0.234b	0.080	0.052
31	0.163	NA	0.478	NA	0.081	NA
Mo. Avg. (cfs)	0.256	0.187	0.391	0.659	0.199	0.087

Monthly Discharge

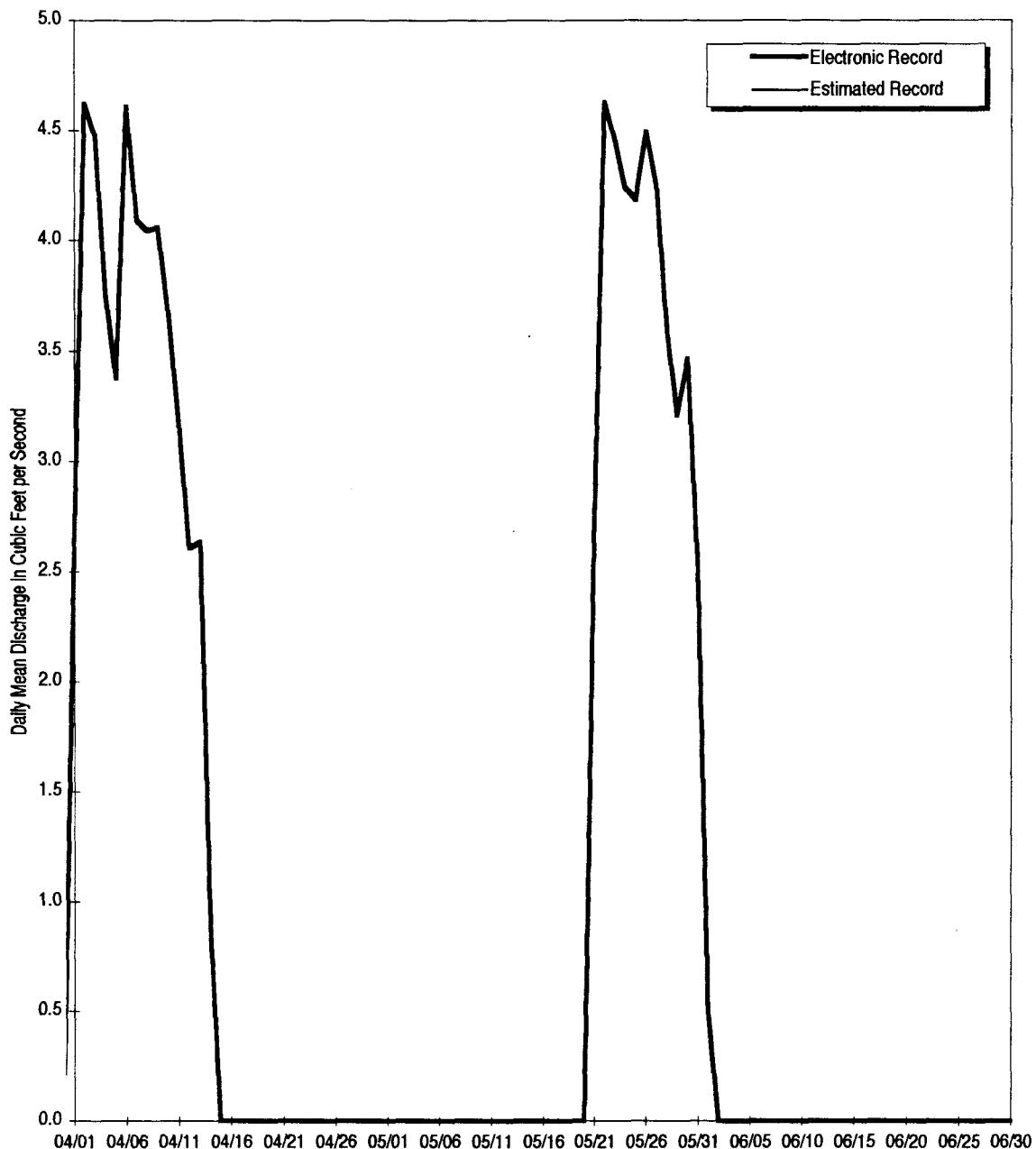
Cubic Feet	685,209	451,907	911,141	1,707,697	533,294	226,240
Gallons	5,125,720	3,380,496	6,815,806	12,774,463	3,989,313	1,692,391
Acre Feet	15.73	10.37	20.91	39.20	12.24	5.19

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.

b Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS11 is located $39^{\circ} 54' 3''N$, $105^{\circ} 10' 47''W$, at the Pond A-4 Outfall on North Walnut Creek (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond A-4 to North Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-9 Mean Daily Discharge at Gaging Station GS11, Water Year 1998
(April, May, June 1998)**

Table 4-9 Gaging Station GS11: Mean Daily Discharge (Cubic Feet per Second)

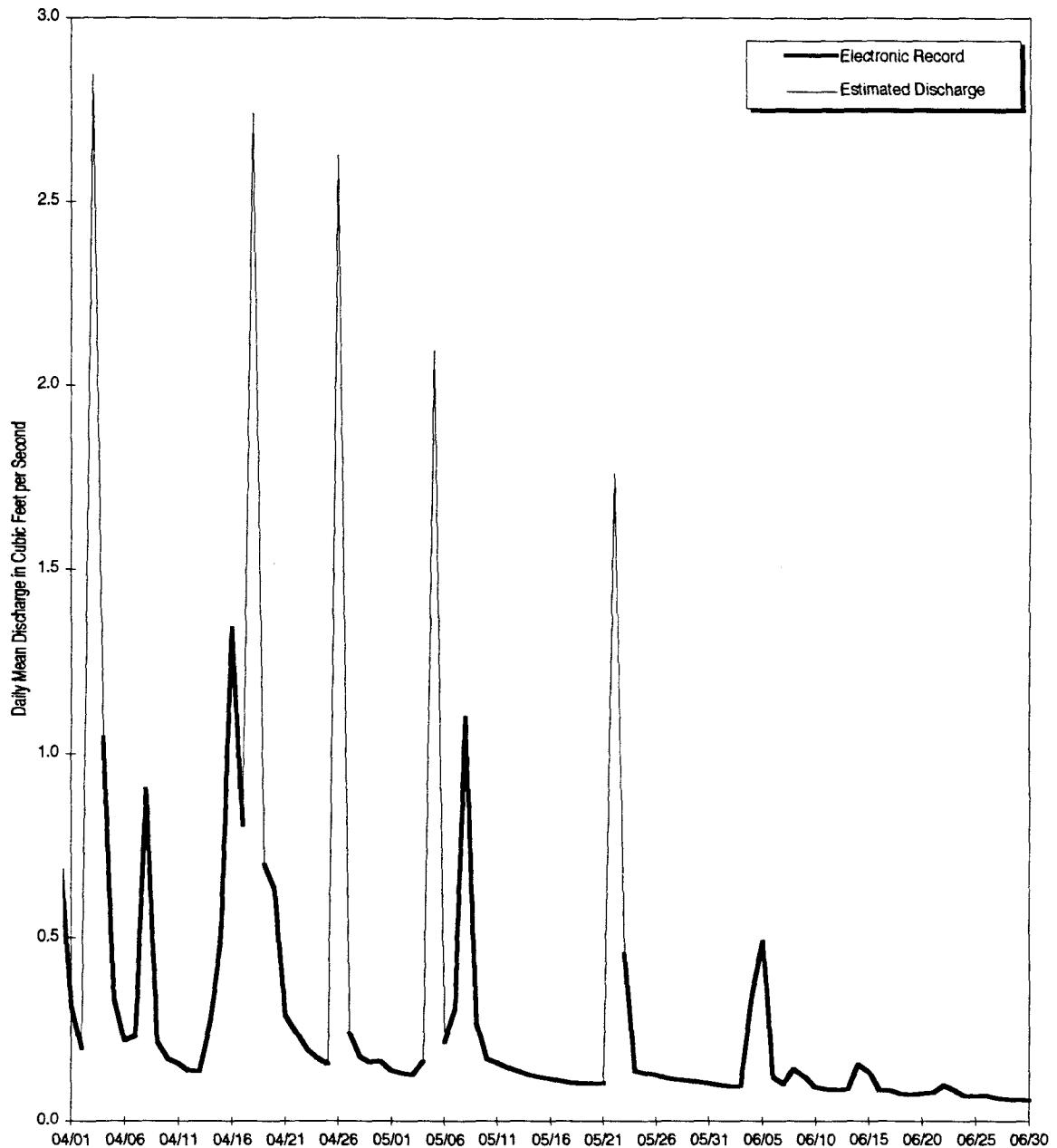
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	0.000	0.000	2.587	0.000	0.476
2	0.000	0.000	0.000	4.622	0.000	0.000
3	0.000	0.000	0.000	4.474	0.000	0.000
4	0.000	0.000	0.000	3.758	0.000	0.000
5	0.000	0.000	0.000	3.377	0.000	0.000
6	0.000	0.000	0.000	4.609	0.000	0.000
7	0.000	0.000	0.000	4.093	0.000	0.000
8	0.000	0.000	0.000	4.044	0.000	0.000
9	0.000	0.000	0.000	4.060	0.000	0.000
10	0.000	0.000	0.000	3.646	0.000	0.000
11	0.000	0.000	0.000	3.175	0.000	0.000
12	0.000	1.854	0.000	2.607	0.000	0.000
13	0.000	3.246	0.000	2.637	0.000	0.000
14	0.000	3.220	0.000	0.900	0.000	0.000
15	0.000	3.048	0.000	0.000	0.000	0.000
16	0.000	3.113	0.000	0.000	0.000	0.000
17	0.000	2.127	0.000	0.000	0.000	0.000
18	0.000	1.647	0.000	0.000	0.000	0.000
19	0.000	1.719	0.000	0.000	0.000	0.000
20	0.000	1.773	0.000	0.000	0.000	0.000
21	0.000	1.443	0.000	0.000	2.634	0.000
22	0.000	1.138	0.000	0.000	4.627	0.000
23	0.000	1.239	0.000	0.000	4.456	0.000
24	0.000	0.000	0.000	0.000	4.237	0.000
25	0.000	0.000	0.000	0.000	4.183	0.000
26	0.000	0.000	0.000	0.000	4.493	0.000
27	0.000	0.000	0.000	0.000	4.251	0.000
28	0.000	0.000	0.000	0.000	3.600	0.000
29	0.000	NA	0.000	0.000	3.214	0.000
30	0.000	NA	0.000	0.000	3.468	0.000
31	0.000	NA	0.000	NA	2.513	NA
Mo. Avg. (cfs)	0.000	0.913	0.000	1.620	1.344	0.016

Monthly Discharge

Cubic Feet	0	2,209,092	0	4,198,027	3,600,768	41,101
Gallons	0	16,525,154	0	31,403,426	26,935,616	307,454
Acre Feet	0.00	50.71	0.00	96.36	82.65	0.94

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS10 is located 39° 53' 35"N, 105° 11' 27"W on South Walnut Creek above the Pond B-1 Bypass (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water leaving the Site Industrial Area and entering the B-Series Ponds and South Walnut Creek. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.



**Figure 4-8 Mean Daily Discharge at Gaging Station GS10, Water Year 1998
(April, May, June 1998)**

Table 4-8 Gaging Station GS10: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.129	0.070	0.061	0.313	0.139	0.099
2	0.094	0.072	0.064	0.201	0.131	0.095
3	0.069	0.069	0.064	2.844a	0.127	0.095
4	0.067	0.071	0.063	1.044	0.163	0.350
5	0.068	0.071	0.075	0.332	2.098a	0.490
6	0.101	0.070	0.071	0.220	0.218	0.120
7	0.097	0.067	0.110	0.236	0.307	0.101
8	0.100	0.066	0.132	0.902	1.100	0.143
9	0.078	0.068	0.108	0.216	0.269	0.120
10	0.074	0.066	0.087	0.172	0.171	0.094
11	0.101	0.064	0.101	0.159	0.159	0.088
12	0.088	0.063	0.097	0.138	0.148	0.085
13	0.106	0.063	0.090	0.135	0.136	0.087
14	0.109	0.063	0.086	0.270	0.127	0.156
15	0.106	0.064	0.083	0.505	0.120	0.134
16	0.087	0.116	0.079	1.340	0.115	0.084
17	0.105	0.074	0.216	0.807	0.109	0.085
18	0.094	0.067	0.411	2.739a	0.104	0.075
19	0.091	0.064	0.765	0.699	0.103	0.072
20	0.083	0.063	0.913	0.632	0.102	0.075
21	0.080	0.063	0.869	0.289	0.102	0.076
22	0.076	0.062	0.923	0.243	1.763a	0.099
23	0.075	0.061	0.431	0.198	0.457	0.085
24	0.076	0.062	0.228	0.174	0.139	0.070
25	0.075	0.063	0.175	0.158	0.131	0.069
26	0.074	0.058	0.153	2.625a	0.127	0.069
27	0.074	0.060	0.157	0.238	0.117	0.064
28	0.073	0.061	0.130	0.177	0.113	0.060
29	0.074	NA	0.125	0.161	0.110	0.058
30	0.072	NA	0.570	0.164	0.106	0.057
31	0.072	NA	0.738	NA	0.104	NA
Mo. Avg. (cfs)	0.086	0.067	0.264	0.611	0.297	0.112

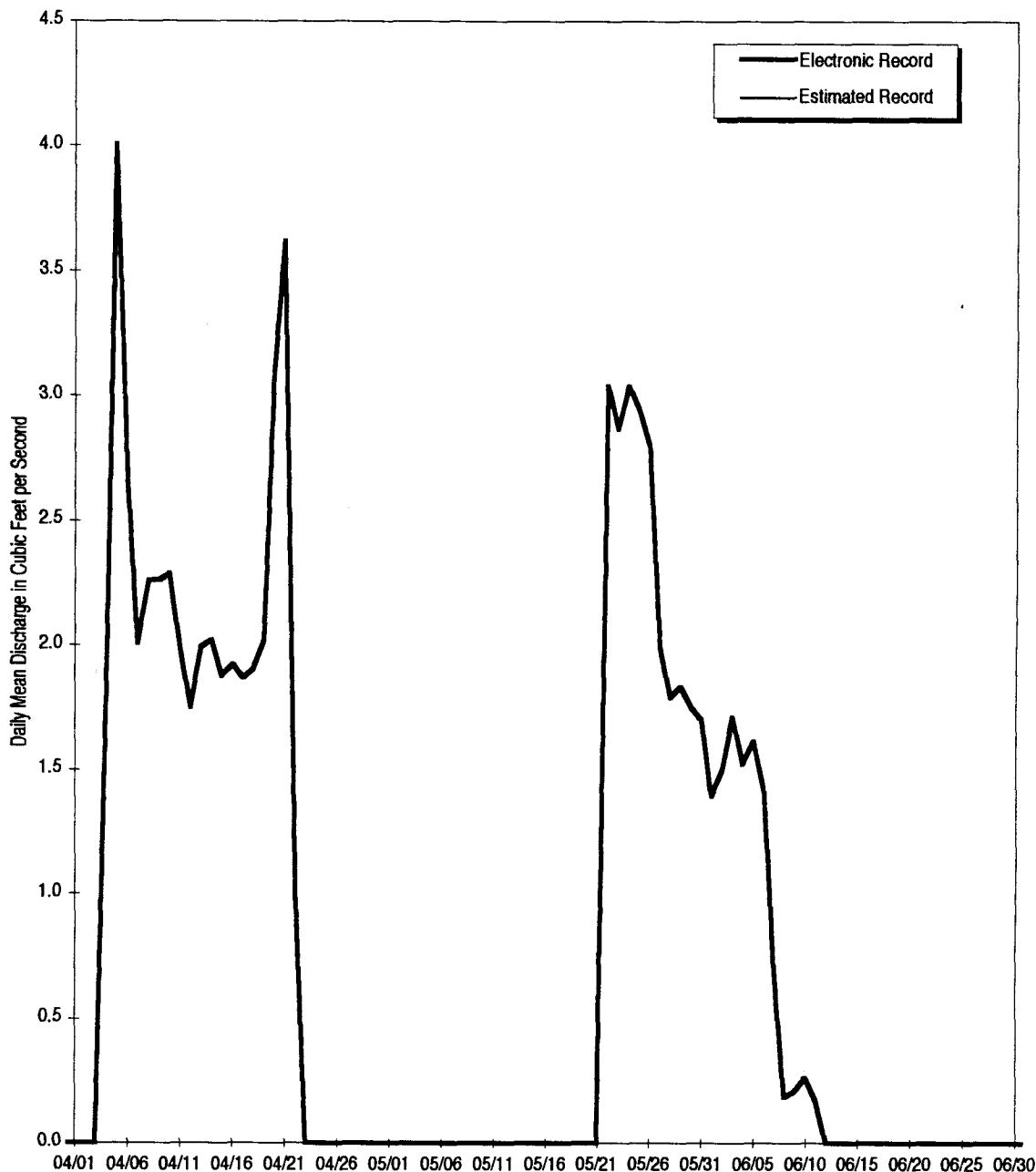
Monthly Discharge

Cubic Feet	230,611	162,604	706,316	1,583,857	796,343	289,817
Gallons	1,725,090	1,216,360	5,283,607	11,848,072	5,957,061	2,167,980
Acre Feet	5.29	3.73	16.21	36.35	18.28	6.65

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS08 is located 39° 53' 54"N, 105° 10' 48"W, at the Pond B-5 Outfall on South Walnut Creek (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond B-5 to South Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-7 Mean Daily Discharge at Gaging Station GS08, Water Year 1998
(April, May, June 1998)**

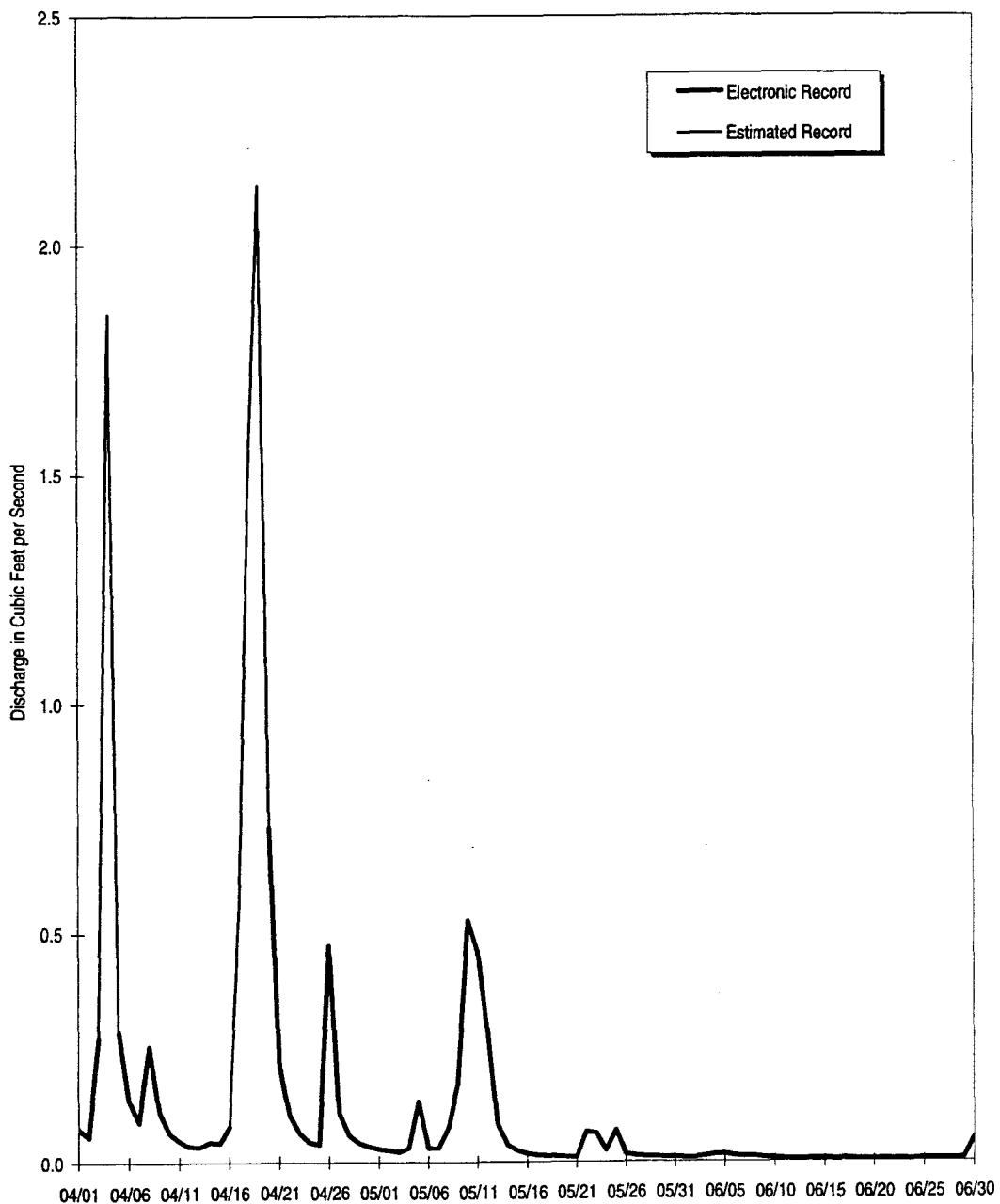
Table 4-7 Gaging Station GS08: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	0.000	0.000	0.000	0.000	1.397
2	0.000	0.000	0.000	0.000	0.000	1.501
3	0.000	0.000	0.000	0.000	0.000	1.717
4	0.000	0.000	0.000	1.840	0.000	1.528
5	0.000	0.000	0.000	4.005	0.000	1.620
6	0.000	0.000	0.000	2.669	0.000	1.434
7	0.000	0.000	0.000	2.010	0.000	0.691
8	0.000	0.000	0.000	2.261	0.000	0.187
9	0.000	0.000	0.000	2.266	0.000	0.209
10	0.000	0.000	0.000	2.287	0.000	0.262
11	0.000	0.000	0.000	1.978	0.000	0.169
12	0.000	0.000	0.000	1.751	0.000	0.000
13	0.000	0.000	0.000	1.995	0.000	0.000
14	0.000	0.000	0.000	2.024	0.000	0.000
15	0.000	0.000	0.000	1.876	0.000	0.000
16	0.000	0.000	0.000	1.925	0.000	0.000
17	0.000	0.000	0.000	1.870	0.000	0.000
18	0.000	0.000	0.000	1.907	0.000	0.000
19	0.009	0.000	0.000	2.023	0.000	0.000
20	0.000	0.000	0.000	3.099	0.000	0.000
21	0.000	0.000	0.000	3.619	0.000	0.000
22	0.000	0.000	0.000	1.005	3.042	0.000
23	0.000	0.000	0.000	0.000	2.869	0.000
24	0.000	0.000	0.000	0.000	3.040	0.000
25	0.000	0.000	0.000	0.000	2.946	0.000
26	0.000	0.000	0.000	0.000	2.806	0.000
27	0.000	0.000	0.000	0.000	1.996	0.000
28	0.000	0.000	0.000	0.000	1.795	0.000
29	0.000	NA	0.000	0.000	1.840	0.000
30	0.000	NA	0.000	0.000	1.756	0.000
31	0.000	NA	0.000	NA	1.707	NA
Mo. Avg. (cfs)	0.000	0.000	0.000	1.414	0.768	0.357

Monthly Discharge						
Cubic Feet	758	0	0	3,664,235	2,056,052	925,782
Gallons	5,669	0	0	27,410,381	15,380,337	6,925,331
Acre Feet	0.02	0.00	0.00	84.12	47.20	21.25

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS06 is located 39° 52' 53"N, 105° 13' 17"W, on South Woman Creek (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water entering South Woman Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-6 Mean Daily Discharge at Gaging Station GS06, Water Year 1998
(April, May, June 1998)**

Table 4-6 Gaging Station GS06: Mean Daily Discharge (Cubic Feet per Second)

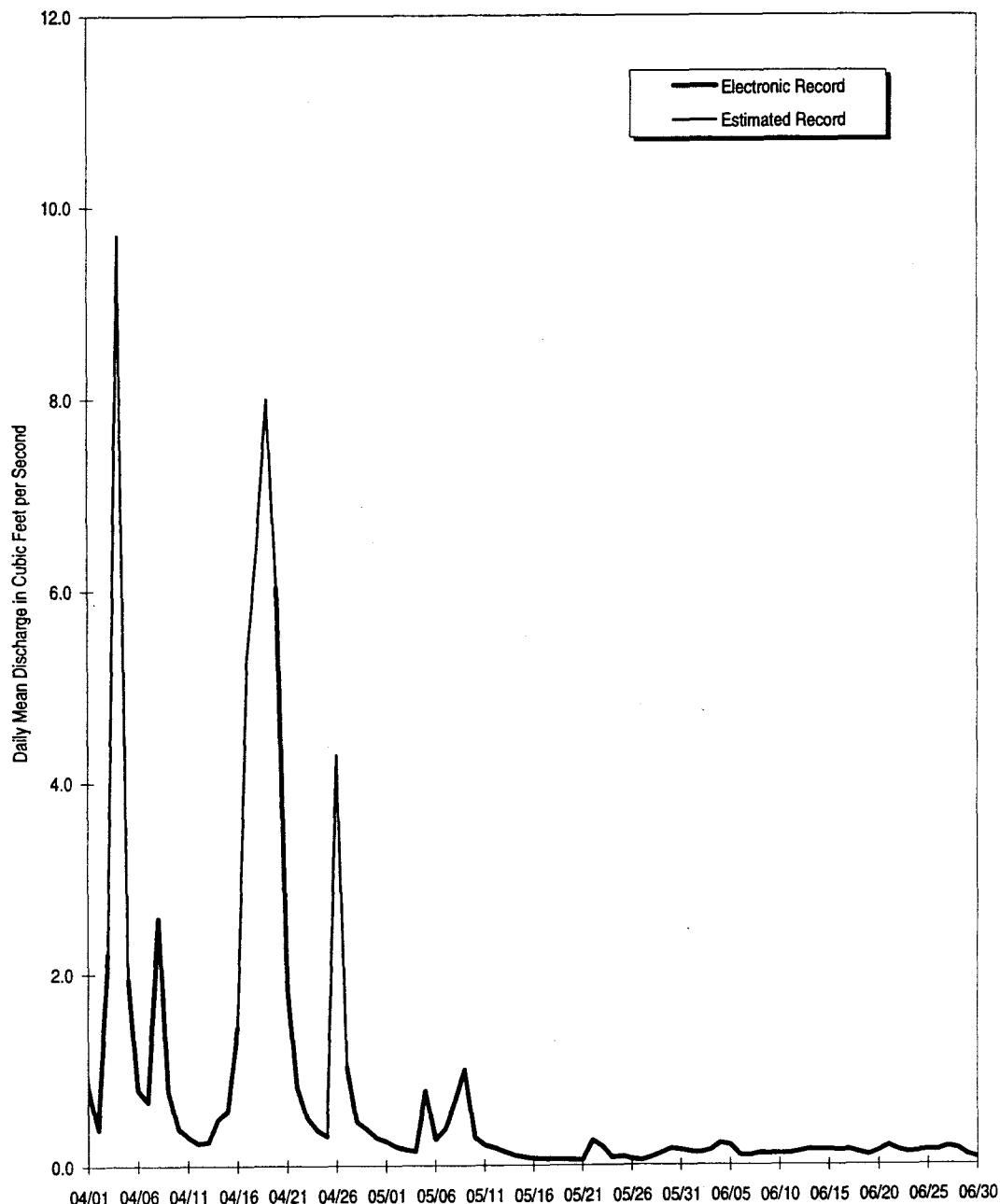
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.008	a	a	0.075	0.030	0.008
2	0.008	a	0.005	0.057	0.027	0.008
3	0.010	a	0.006	0.272	0.023	0.011
4	0.018	a	0.006	1.852b	0.030	0.015
5	0.022	0.007	0.007	0.286	0.134	0.017
6	0.035	0.007	0.008	0.136	0.031	0.012
7	0.009	0.008	0.003	0.089	0.031	0.011
8	0.006	0.006	0.002	0.256	0.077	0.012
9	a	0.006	0.004	0.111	0.173	0.009
10	a	0.008	a	0.065	0.529	0.008
11	a	a	0.002	0.048	0.462	0.006
12	a	a	0.013	0.036	0.284	0.005
13	a	a	0.006	0.034	0.084	0.005
14	a	0.006	0.004	0.045	0.037	0.007
15	a	0.007	0.004	0.043	0.025	0.007
16	0.006	0.007	0.004	0.080	0.018	0.006
17	0.008	0.007	0.007	0.567b	0.015	0.006
18	0.008	0.006	0.011	1.478b	0.014	0.005
19	0.008	a	0.009	2.131b	0.012	0.005
20	0.007	a	0.012	0.731	0.011	0.005
21	0.012	a	0.042	0.214	0.010	0.006
22	a	0.005	0.413	0.104	0.066	0.006
23	a	0.005	0.308	0.065	0.063	0.006
24	a	0.005	0.105	0.044	0.025	0.005
25	0.007	0.004	0.063	0.040	0.071	0.006
26	0.011	a	0.050	0.476	0.016	0.005
27	0.008	a	0.037	0.108	0.013	0.006
28	0.007	a	0.029	0.060	0.011	0.006
29	0.010	NA	0.026	0.042	0.011	0.007
30	0.007	NA	0.042	0.034	0.010	0.052
31	a	NA	0.103	NA	0.010	NA
Mo. Avg. (cfs)	0.011	0.006	0.046	0.319	0.076	0.009

Monthly Discharge						
Cubic Feet	18,659	8,025	114,901	827,638	203,290	23,434
Gallons	139,580	60,032	859,516	6,191,163	1,520,716	175,296
Acre Feet	0.43	0.18	2.64	19.00	4.67	0.54

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.
b Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS05 is located 39° 53' 6"N, 105° 13' 17"W, at Kinnear Ditch and North Woman Creek (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water entering North Woman Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-5 Mean Daily Discharge at Gaging Station GS05, Water Year 1998
(April, May, June 1998)**

Table 4-5 Gaging Station GS05: Mean Daily Discharge (Cubic Feet per Second)

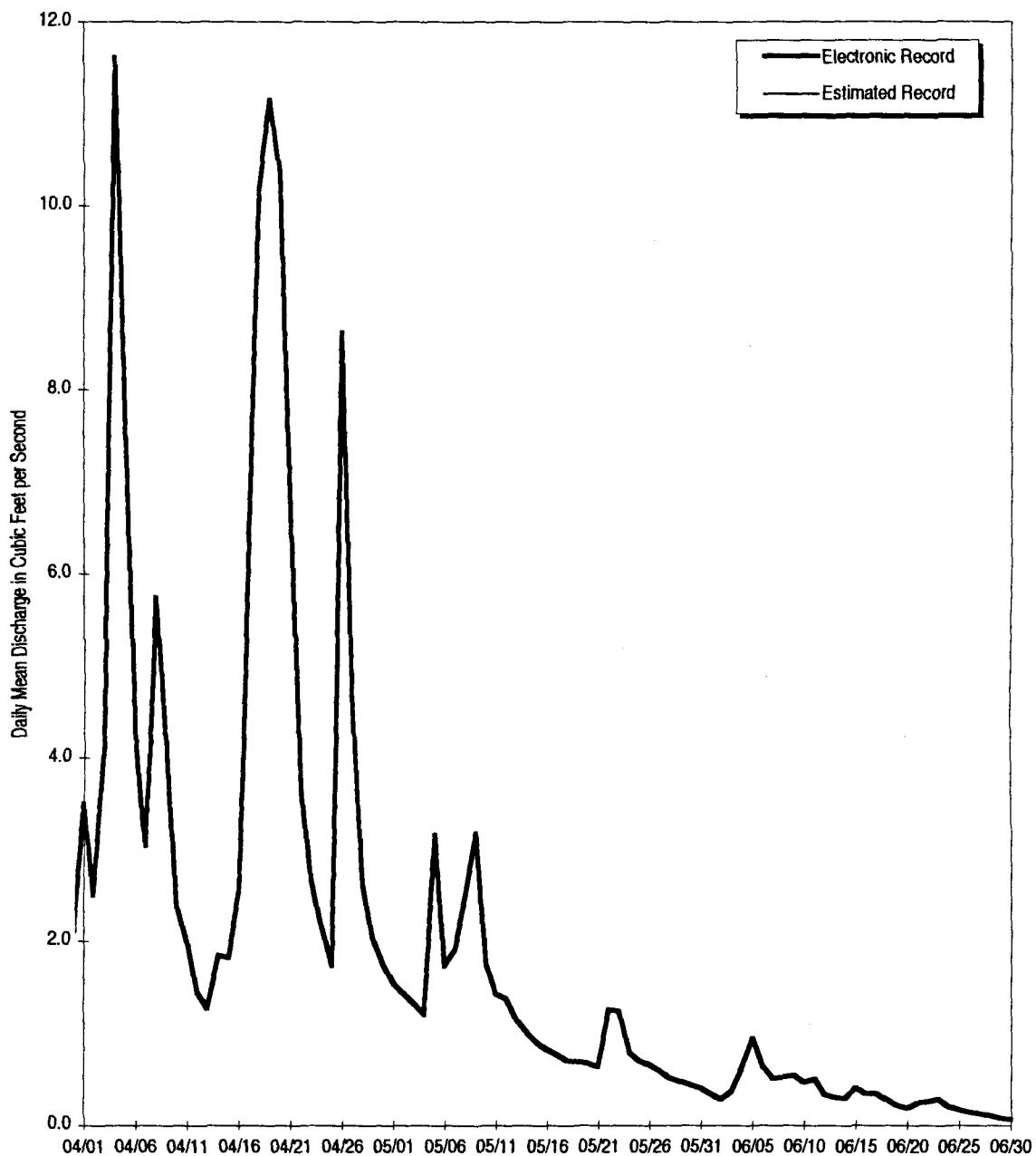
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.117	0.094	0.125	0.821	0.256	0.138
2	0.118	0.082	0.124	0.381	0.201	0.128
3	0.073	0.083	0.102	2.203	0.168	0.153
4	0.072	0.079	0.056	9.711a	0.150	0.226
5	0.076	0.068	0.072	1.943	0.786	0.209
6	b	0.080	0.074	0.794	0.269	0.101
7	b	0.088	0.155	0.666	0.383	0.098
8	b	0.075	0.128	2.589	0.663	0.123
9	0.125	0.074	0.124	0.788	1.005	0.122
10	0.107	0.069	0.151	0.387	0.294	0.115
11	0.112	0.080	0.147	0.300	0.217	0.123
12	0.107	0.080	0.230	0.235	0.186	0.138
13	0.106	0.068	0.183	0.250	0.146	0.161
14	0.088	0.062	0.086	0.489	0.107	0.155
15	0.120	0.063	0.079	0.572	0.089	0.162
16	0.104	0.090	0.102	1.447	0.074	0.151
17	0.131	0.094	0.190	5.247a	0.070	0.159
18	0.168	0.073	0.282	6.421a	0.061	0.130
19	0.164	0.064	0.425	8.002	0.061	0.101
20	0.109	0.064	0.513	6.037	0.059	0.146
21	0.103	0.066	0.997	1.863	0.055	0.202
22	0.098	0.058	4.605	0.814	0.259	0.155
23	0.135	0.058	4.372	0.503	0.195	0.130
24	0.278	0.062	0.711	0.372	0.079	0.140
25	0.096	0.054	0.328	0.309	0.093	0.150
26	0.079	0.066	0.233	4.293a	0.062	0.148
27	0.123	0.097	0.217	1.043	0.051	0.185
28	0.121	0.160	0.178	0.465	0.085	0.166
29	0.147	NA	0.162	0.380	0.123	0.103
30	0.148	NA	0.441	0.294	0.171	0.071
31	0.083	NA	1.598	NA	0.160	NA
Mo. Avg. (cfs)	0.118	0.077	0.554	1.987	0.212	0.143

Monthly Discharge						
Cubic Feet	285,761	185,975	1,485,075	5,151,251	568,136	370,541
Gallons	2137639	1,391,193	11,109,135	38,534,036	4,249,955	2,771,837
Acre Feet	6.56	4.27	34.09	118.24	13.04	8.51

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.
b No data or poor data because of winter icing conditions.

Gaging Station GS04 is located 39° 54' 57"N, 105° 11' 37"W, at Rock Creek and Highway 128 (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water leaving the Site through the Rock Creek drainage flowing to Coal Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-4 Mean Daily Discharge at Gaging Station GS04, Water Year 1998
(April, May, June 1998)**

Table 4-4 Gaging Station GS04 Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.425	0.396	0.259	3.498	1.541	0.341
2	0.463	0.367	0.272	2.502	1.439	0.284
3	0.420	0.364	0.317	4.150	1.321	0.374
4	0.387	0.373	0.331	11.609	1.203	0.649
5	a	0.388	0.358	7.769	3.171	0.950
6	a	0.395	0.353	4.099	1.730	0.643
7	a	0.394	0.359	3.038	1.913	0.508
8	a	0.390	0.390	5.749	2.479	0.530
9	a	0.400	0.408	3.920	3.179	0.544
10	a	0.373	0.412	2.380	1.760	0.468
11	a	0.339	0.422	1.962	1.433	0.507
12	0.323	0.331	0.561	1.444	1.380	0.338
13	0.328	0.342	0.699	1.268	1.143	0.311
14	0.344	0.369	0.616	1.846	1.012	0.292
15	0.409	0.382	0.547	1.820	0.902	0.405
16	0.419	0.457	0.515	2.544	0.827	0.341
17	0.484	0.488	0.513	6.336	0.769	0.356
18	0.542	0.454	0.896	10.170	0.708	0.281
19	0.526	0.401	0.843	11.150	0.694	0.217
20	0.452	0.377	0.892	10.352	0.676	0.187
21	0.381	0.366	1.319	6.668	0.635	0.240
22	0.366	0.378	5.292	3.673	1.266	0.255
23	0.348	0.378	8.064	2.660	1.244	0.291
24	0.378	0.390	3.377	2.155	0.795	0.205
25	0.397	0.365	2.186	1.733	0.708	0.167
26	0.388	0.296	1.696	8.617	0.662	0.143
27	0.417	0.268	1.307	4.544	0.601	0.128
28	0.405	0.269	1.106	2.626	0.513	0.106
29	0.396	NA	1.004	2.019	0.483	0.080
30	0.398	NA	1.229	1.746	0.440	0.063
31	0.401	NA	1.977	NA	0.406	NA
Mo. Avg. (cfs)	0.408	0.375	1.242	4.468	1.195	0.340

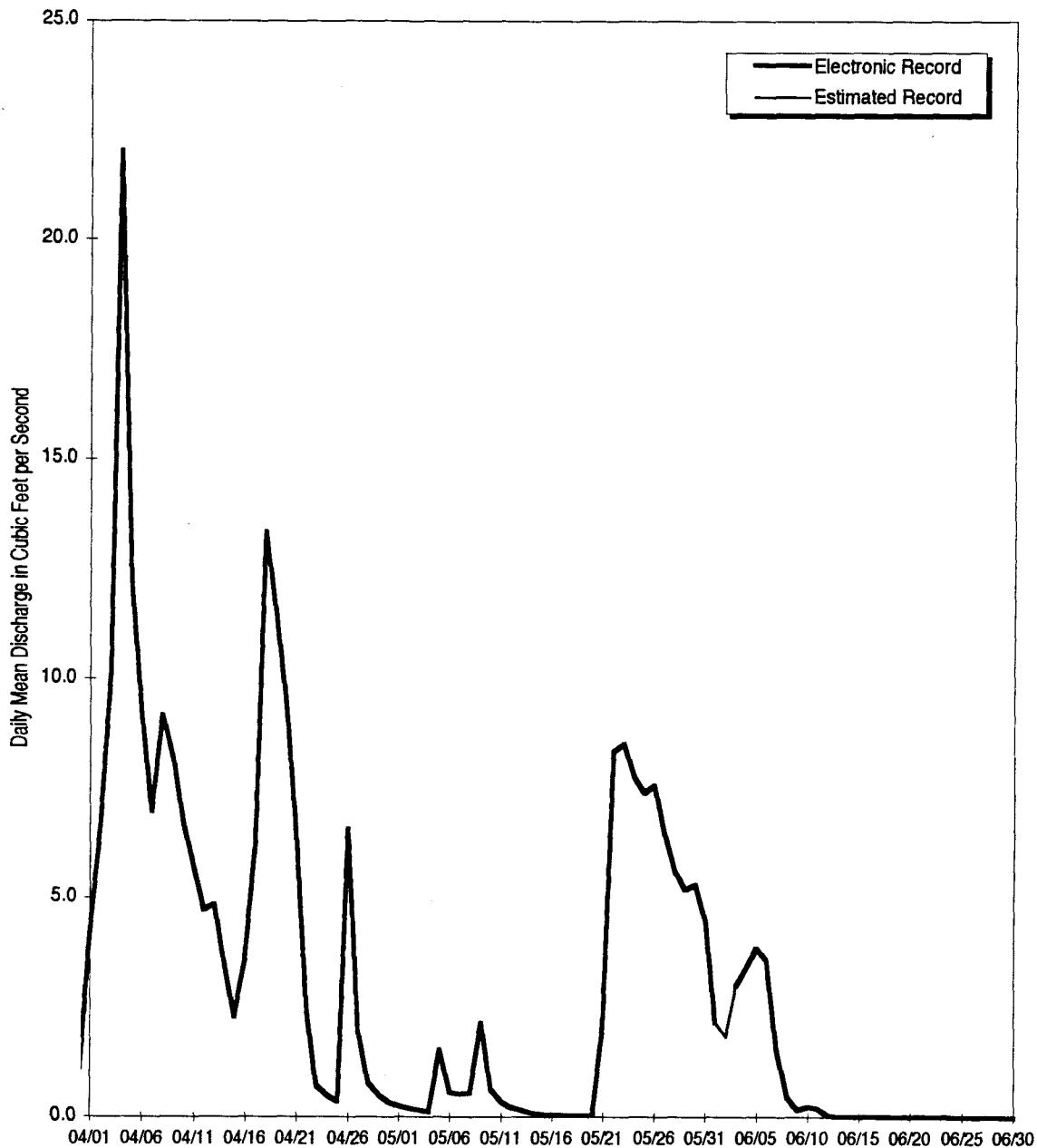
Monthly Discharge

Cubic Feet	846,583	906,602	3,327,889	11,581,729	3,199,588	881,636
Gallons	6,332,879	6,781,855	24,894,341	86,637,359	23,934,579	6,595,099
Acre Feet	19.43	20.81	76.39	265.84	73.44	20.24

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.

Gaging Station GS03 is located at 39° 54' 7"N, 105° 9' 59"W, at Walnut Creek and Indiana Street (See Section 4 Map). This station is a RFCA Point of Compliance, a Buffer Zone Monitoring Location and a monitoring point for water leaving the Site and flowing to the Broomfield Diversion Ditch. This station collects samples for selected radionuclides using continuous flow-paced sampling and storm event sampling for selected water quality parameters, metals, and major ions.



**Figure 4-3 Mean Daily Discharge at Gaging Station GS03, Water Year 1998
(April, May, June 1998)**

Table 4-3 Gaging Station GS03: Mean Daily Discharge (Cubic Feet per Second)

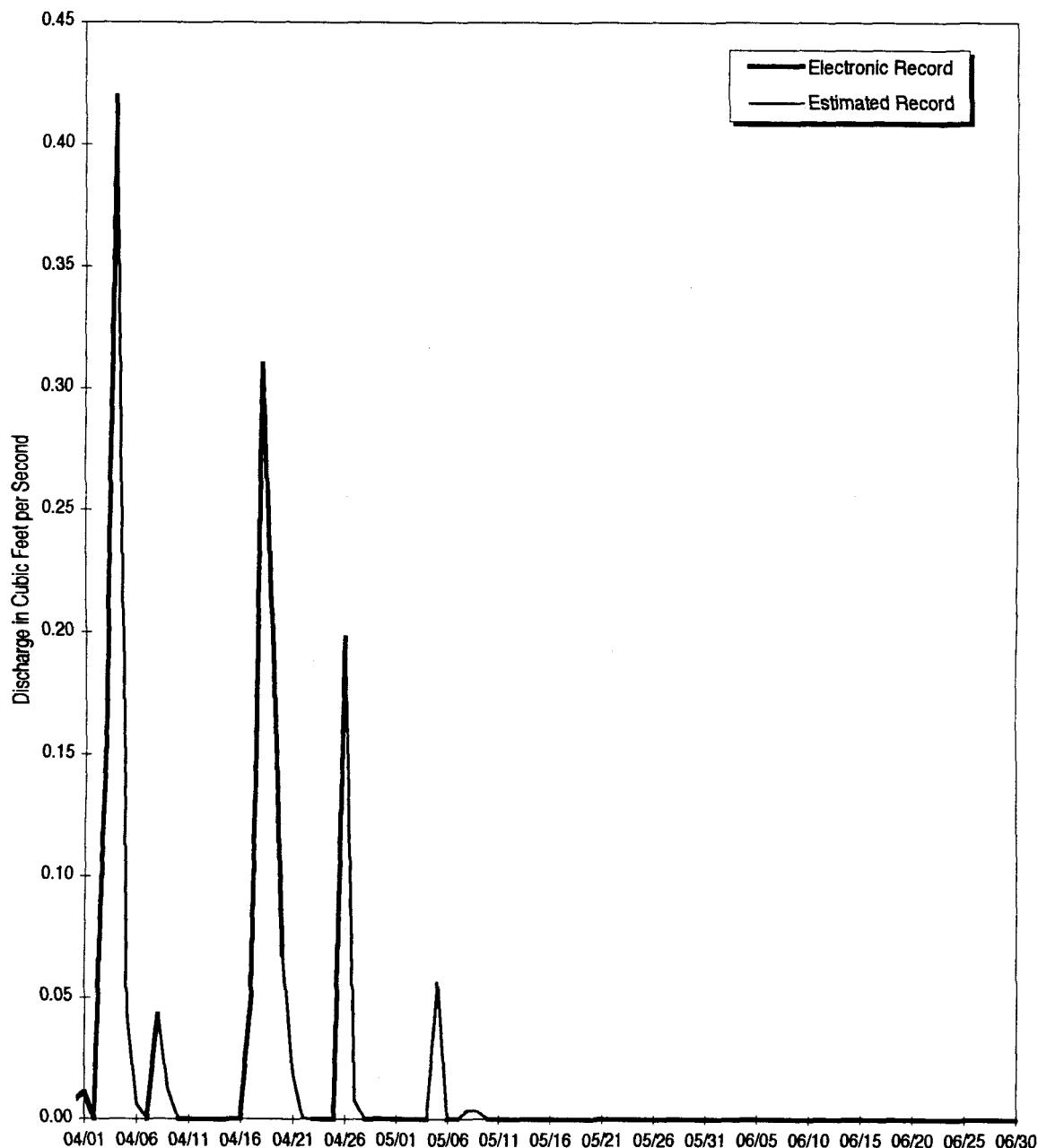
Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.007	0.006	0.004	4.125	0.251	2.151
2	0.009	0.006	0.004	6.533	0.203	1.823a
3	0.010	0.006	0.005	10.166	0.162	2.997
4	0.010	0.006	0.005	22.012	0.127	3.402
5	0.008	0.006	0.005	12.283	1.532	3.875
6	0.010	0.006	0.007	9.143	0.560	3.585
7	0.007	0.006	0.008	6.966	0.509	1.541
8	0.007	0.006	0.005	9.164	0.551	0.451
9	0.007	0.006	0.004	8.156	2.140	0.160
10	0.007	0.005	0.006	6.705	0.623	0.230
11	0.007	0.006	0.006	5.702	0.353	0.201
12	0.007	1.057	0.006	4.717	0.228	0.023
13	0.007	2.902	0.006	4.858	0.152	0.012
14	0.006	3.086	0.006	3.449	0.092	0.014
15	0.006	3.011	0.005	2.270	0.063	0.016
16	0.006	3.063	0.005	3.616	0.049	0.008
17	0.006	2.179	0.003	6.321	0.042	0.007
18	0.005	1.595	0.019	13.367	0.031	0.006
19	0.005	1.593	0.048	11.516	0.033	0.006
20	0.005	1.717	0.559	9.399	0.035	0.005
21	0.005	1.366	1.339	6.432	2.081	0.006
22	0.003	1.050	5.005	2.416	8.345	0.007
23	0.003	1.312	5.931	0.723	8.538	0.008
24	0.002	0.041	1.382	0.489	7.780	0.004
25	0.002	0.009	0.624	0.351	7.412	0.003
26	0.003	0.007	0.331	6.574	7.599	0.003
27	0.003	0.006	0.209	1.938	6.468	0.002
28	0.003	0.005	0.143	0.771	5.622	0.001
29	0.004	NA	0.100	0.512	5.196	0.000
30	0.005	NA	0.180	0.342	5.324	0.000
31	0.007	NA	1.002	NA	4.489	NA
Mo. Avg. (cfs)	0.006	0.859	0.547	6.034	2.471	0.685

Monthly Discharge						
Cubic Feet	15,896	2,078,941	1,465,375	15,640,041	6,617,461	1,775,390
Gallons	118,912	15,551,561	10,961,765	116,995,639	49,502,048	13,280,838
Acre Feet	0.36	47.72	33.64	358.99	151.89	40.75

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS02 is located at 39° 52' 53"N and 105° 9' 55"W, at Mower Ditch and Indiana Street (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water leaving the Site and flowing to Mower Reservoir. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-2 Mean Daily Discharge at Gaging Station GS02, Water Year 1998
(April, May, June 1998)**

Table 4-2 Gaging Station GS02: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.000	0.000	0.000	0.011	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.165	0.000	0.000
4	0.000	0.000	0.000	0.420	0.000	0.000
5	0.000	0.000	0.000	0.044a	0.056a	0.000
6	0.000	0.000	0.000	0.006a	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.043	0.004a	0.000
9	b	0.000	0.000	0.013a	0.003a	0.000
10	b	0.000	0.000	0.000	0.000	0.000
11	b	0.000	0.000	0.000	0.000	0.000
12	b	0.000	0.000	0.000	0.000	0.000
13	b	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.052	0.000	0.000
18	0.000	0.000	0.000	0.310	0.000	0.000
19	0.000	0.000	0.000	0.199	0.000	0.000
20	0.000	0.000	0.000	0.068	0.000	0.000
21	b	0.000	0.009	0.019a	0.000	0.000
22	b	0.000	0.093	0.000a	0.000	0.000
23	b	0.000	0.050a	0.000	0.000	0.000
24	b	0.000	0.007a	0.000	0.000	0.000
25	0.000	0.000	0.000a	0.000	0.000	0.000
26	0.000	0.000	0.000	0.198	0.000	0.000
27	0.000	0.000	0.000	0.007a	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	NA	0.000	0.000	0.000	0.000
30	0.000	NA	0.000	0.000	0.000	0.000
31	0.000	NA	0.008	NA	0.000	NA
Mo. Avg. (cfs)	0.000	0.000	0.005	0.052	0.002	0.000

Monthly Discharge

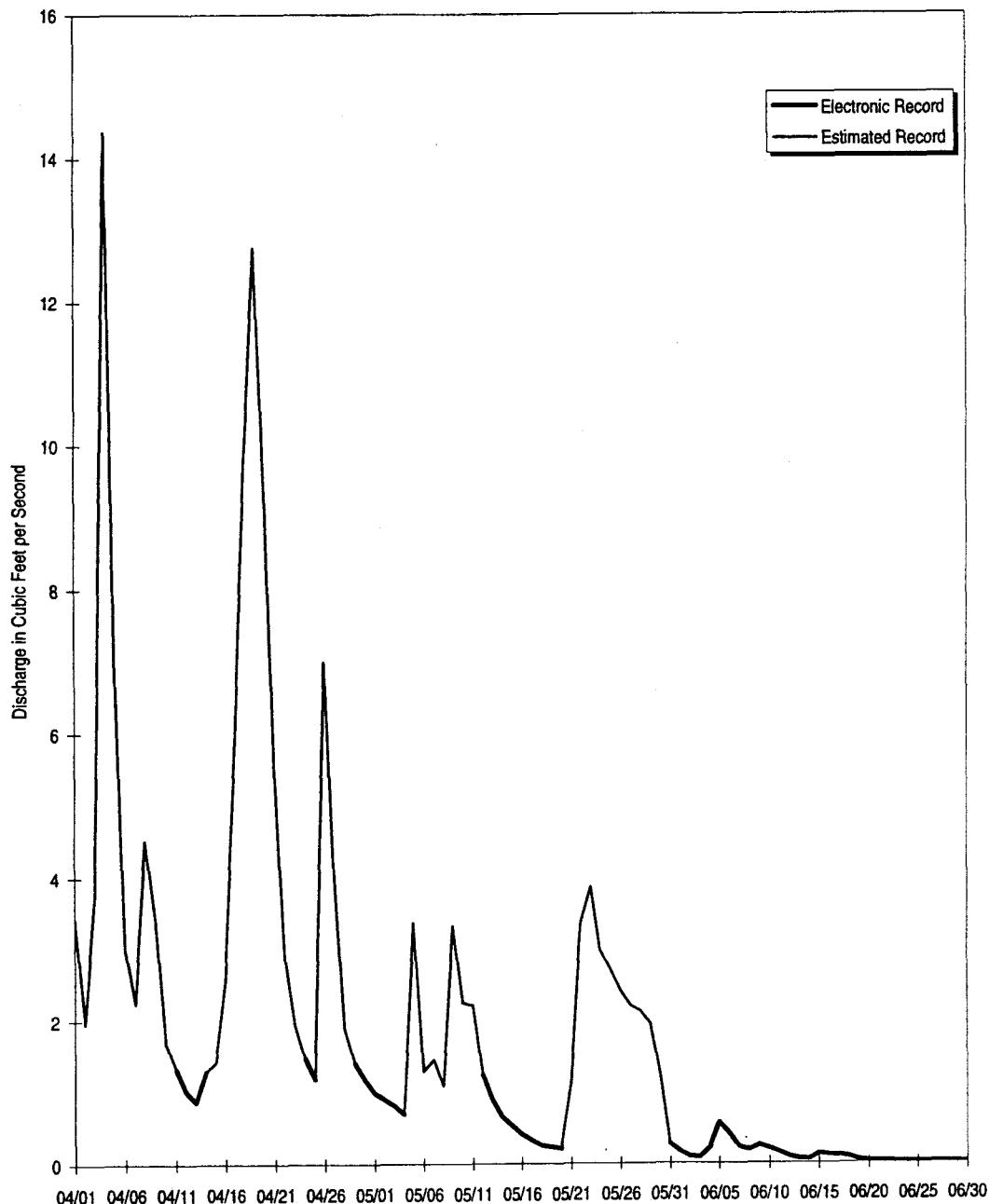
Cubic Feet	0	0	14,412	134,260	5,474	0
Gallons	0	0	107,807	1,004,332	40,952	0
Acre Feet	0.00	0.00	0.33	3.08	0.13	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS01 is located at 39° 52' 40"N, 105° 09' 55"W, at Woman Creek and Indiana Street (See Section 4 Map). This station is a RFCA Point of Compliance, a Buffer Zone Monitoring Location and a monitoring point for water leaving the Site and flowing to Woman Creek Reservoir. This station collects samples for selected radionuclides using continuous flow-paced sampling and storm event sampling for selected water quality parameters, metals, and major ions.



**Figure 4-1 Mean Daily Discharge at Gaging Station GS01, Water Year 1998
(April, May, June 1998)**

Section 4.1 Flow Monitoring

Table 4-1 Gaging Station GS01: Mean Daily Discharge (Cubic Feet per Second)

Date	January 1998	February 1998	March 1998	April 1998	May 1998	June 1998
1	0.449	0.370	0.142	3.424a	1.000	0.167
2	0.509	0.362	0.141	1.967a	0.908	0.095
3	0.473	0.329	0.175	3.778a	0.818	0.083
4	0.372	0.348	0.231	14.368a	0.701	0.224
5	0.354	0.360	0.231	6.763a	3.369a	0.570
6	0.319	0.354	0.267	3.007a	1.301a	0.416
7	0.392	0.368	0.259	2.249a	1.464a	0.232
8	0.423	0.374	0.307	4.524a	1.091	0.189
9	0.384	0.370	0.361	3.415a	3.325a	0.254
10	0.342	0.355	0.363	1.691	2.255a	0.207
11	0.353	0.314	0.413	1.336	2.215a	0.154
12	0.444	0.277	0.525	1.025	1.248	0.095
13	0.409	0.280	0.745	0.873	0.895	0.063
14	0.407	0.335	0.612	1.300	0.662	0.055
15	0.428	0.345	0.453	1.428a	0.532	0.132
16	0.489	0.395	0.398	2.583a	0.414	0.118
17	0.467	0.450	0.418	5.914a	0.333	0.108
18	0.644	0.443	1.022	9.753a	0.260	0.089
19	0.639	0.355	1.009	12.761a	0.238	0.042
20	0.559	0.311	1.439	9.526a	0.214	0.024
21	0.389	0.295	2.493	5.415a	1.141a	0.021
22	0.315	0.312	7.785	2.883a	3.351a	0.020
23	0.267	0.297	10.413a	1.944a	3.881a	0.019
24	0.300	0.304	3.319a	1.488	2.989a	0.017
25	0.374	0.268	1.676	1.189	2.711a	0.016
26	0.399	0.214	1.165	7.003a	2.421a	0.014
27	0.455	0.176	1.020	3.985a	2.212a	0.013
28	0.493	0.153	0.857	1.898a	2.134a	0.012
29	0.422	NA	0.793	1.411	1.955a	0.011
30	0.431	NA	1.065	1.185	1.240a	0.009
31	0.429	NA	2.878a	NA	0.272	NA
Mo. Avg. (cfs)	0.424	0.326	1.386	4.003	1.534	0.116

Monthly Discharge

Cubic Feet	1,134,396	787,458	3,713,067	10,375,557	4,108,127	299,653
Gallons	8,485,873	5,890,593	27,775,672	77,614,562	30,730,923	2,241,557
Acre Feet	26.04	18.07	85.23	238.15	94.30	6.88

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Section 4: Hydrologic - Rocky Flats Clean-up Agreement

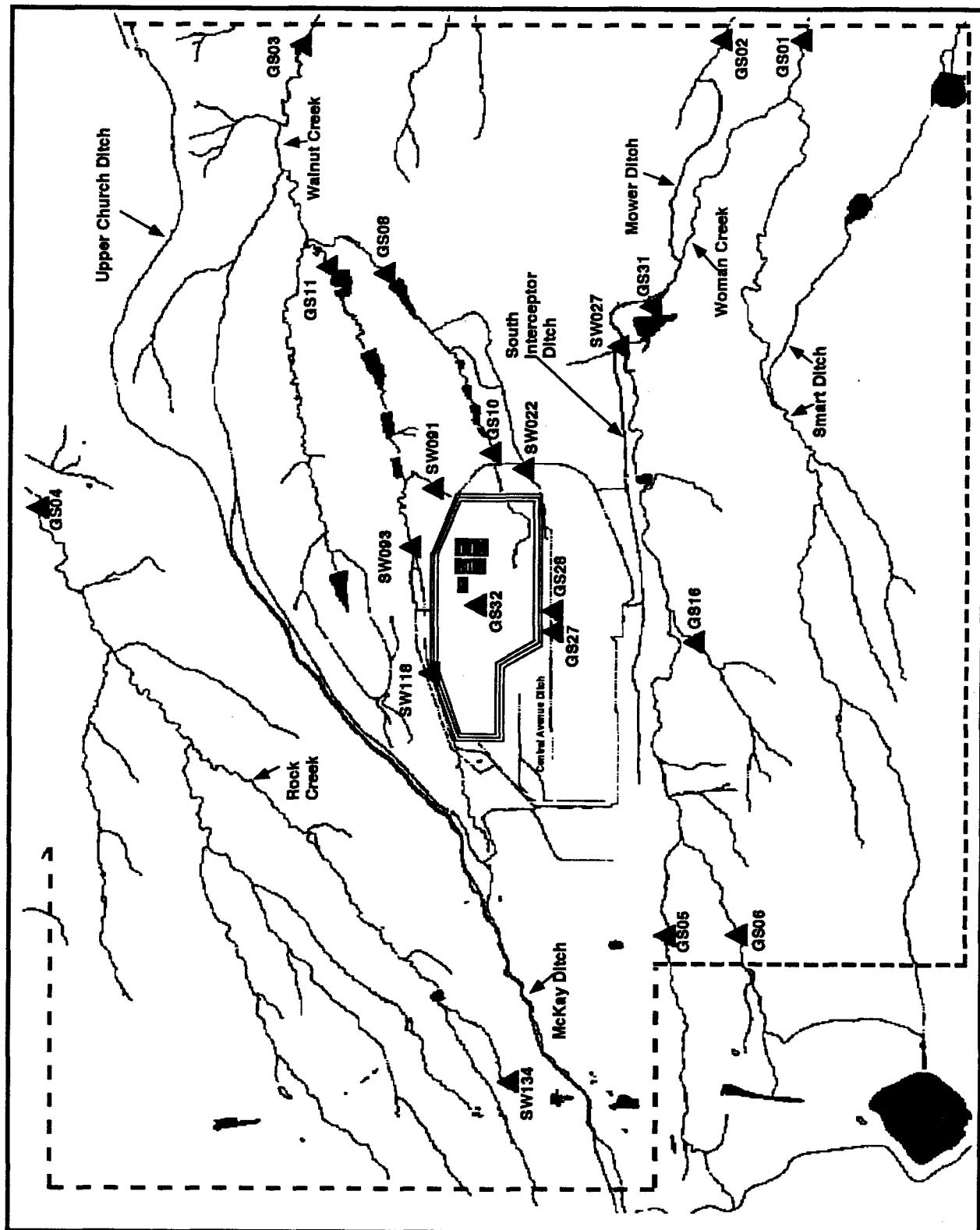


Figure 4-0 Gaging Station Locations

Key: Δ Gaging Station Location

Surface Water Data

Table 3-4 Daily Transfer Flow Data Recorded for Pond B-5 to Pond A-4

Date	Pond B-5 to A-4 (gal)	Date	Pond B-5 to A-4 (gal)	Date	Pond B-5 to A-4 (gal)
4/01/98	No transfer	5/01/98	No transfer	6/01/98	No transfer
4/02/98	No transfer	5/02/98	No transfer	6/02/98	No transfer
4/03/98	No transfer	5/03/98	No transfer	6/03/98	No transfer
4/04/98	No transfer	5/04/98	No transfer	6/04/98	No transfer
4/05/98	No transfer	5/05/98	No transfer	6/05/98	No transfer
4/06/98	No transfer	5/06/98	No transfer	6/06/98	No transfer
4/07/98	No transfer	5/07/98	No transfer	6/07/98	No transfer
4/08/98	No transfer	5/08/98	No transfer	6/08/98	No transfer
4/09/98	No transfer	5/09/98	No transfer	6/09/98	No transfer
4/10/98	No transfer	5/10/98	No transfer	6/10/98	No transfer
4/11/98	No transfer	5/11/98	No transfer	6/11/98	No transfer
4/12/98	No transfer	5/12/98	No transfer	6/12/98	No transfer
4/13/98	No transfer	5/13/98	No transfer	6/13/98	No transfer
4/14/98	No transfer	5/14/98	No transfer	6/14/98	No transfer
4/15/98	No transfer	5/15/98	No transfer	6/15/98	No transfer
4/16/98	No transfer	5/16/98	No transfer	6/16/98	No transfer
4/17/98	No transfer	5/17/98	No transfer	6/17/98	No transfer
4/18/98	No transfer	5/18/98	No transfer	6/18/98	No transfer
4/19/98	No transfer	5/19/98	No transfer	6/19/98	No transfer
4/20/98	No transfer	5/20/98	No transfer	6/20/98	No transfer
4/21/98	No transfer	5/21/98	No transfer	6/21/98	No transfer
4/22/98	No transfer	5/22/98	No transfer	6/22/98	No transfer
4/23/98	No transfer	5/23/98	No transfer	6/23/98	No transfer
4/24/98	No transfer	5/24/98	No transfer	6/24/98	No transfer
4/25/98	No transfer	5/25/98	No transfer	6/25/98	No transfer
4/26/98	No transfer	5/26/98	No transfer	6/26/98	No transfer
4/27/98	No transfer	5/27/98	No transfer	6/27/98	No transfer
4/28/98	No transfer	5/28/98	No transfer	6/28/98	No transfer
4/29/98	No transfer	5/29/98	No transfer	6/29/98	No transfer
4/30/98	No transfer	5/30/98	No transfer	6/30/98	No transfer
		5/31/98	No transfer		
Total	No transfer	Total	No transfer	Total	No transfer

Table 3-3 Ponds – Interior and Terminal

Location, Parameter, and Units	Measured 30-Day Avg	Limit 30-Day Avg	Measured 7-Day Avg	Limit 7-Day Avg	Measured Daily Min	Limit Daily Min	Measured Daily Max	Limit Daily Max	Measured Result
Discharged: 4/1/98 - 4/13/98, 4/19/98 - 5/3/98, 5/21/98 - 5/30/98									
Pond A-3 (Outfall 002) pH, SU	N/A	N/A	N/A	N/A	6.0	7.2 - 7.4	9.0	8.0 - 8.6	N/A
NO ₃ /NO ₂ , mg/l	1.0 - 1.7	10	N/A	N/A	N/A	N/A	2.0 - 2.1	20	N/A
Discharged: 4/1/98 - 4/14/98, 5/21/98 - 6/1/98									
Pond A-4 (Outfall 005A) Total Chromium, µg/l	N/A	N/A	N/A	N/A	N/A	N/A	<0.5 - 1	50	N/A
WET									
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
Discharged: 4/4/98 - 4/22/98, 5/22/98 - 5/31/98, 6/1/98 - 6/11/98									
Pond B-5 (Outfall 006A) Total Chromium, µg/l	N/A	N/A	N/A	N/A	N/A	N/A	0.5 - 1.4	50	N/A
WET									
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
NO ₃ /NO ₂ , mg/l*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRC, mg/l*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Discharged: 5/21/98 - 5/30/98									
Pond C-2 (Outfall 007A) Total Chromium, µg/l	N/A	N/A	N/A	N/A	N/A	N/A	<0.5	50	N/A
WET									
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
<i>*Sample and analysis required only if Pond B-3 is bypassed.</i>									
N/A	= Not Applicable								
SU	= Standard Units								
TRC	= Total Residual Chlorine								
WET	= (Whole Effluent Toxicity) Results for WET are given in percentage of effluent sample that will cause mortality to half the test result organisms within the time frame of the test. For example, >100% indicates that 100% pure effluent did not cause acute toxicity to at least half of the organisms. A lower percentage LC ₅₀ (lethal concentration to 50% of test organisms) indicates a greater toxic effect because less of the sample is required to observe a sufficiently extensive adverse effect.								
Note: Results are the range of values measured during the reporting period.									

Table 3-2 Sewage Treatment Plant (Outfall STP A)

Parameter and Units	Dates of Discharge: 4/1/98 - 6/30/98									
	Measured 30-Day Avg	Limit 30-Day Avg	Measured 7-Day Avg	Limit 7-Day Avg	Measured Daily Min	Limit Daily Min	Measured Daily Max	Limit Daily Max	Observed Sheen	Measured Result
pH, SU	N/A	N/A	N/A	N/A	6.8 - 6.9	6.0	7.4 - 7.5	9.0	N/A	N/A
TSS, mg/l	<5	30	<6	45	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorous, mg/l	0.9 - 2.3	8	N/A	N/A	N/A	N/A	2.3 - 7.3	12	N/A	N/A
TRC, mg/l	<0.02	a	<0.02	a	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium, $\mu\text{g/l}$	<1	50	N/A	N/A	N/A	N/A	0.7 - 2.4	100	N/A	N/A
Fecal Coliform #/100 ml	<2	200b	<3 - 4	440b	N/A	N/A	N/A	N/A	N/A	N/A
CBOD ₅ mg/l	<3	10	N/A	N/A	N/A	N/A	3.0 - 5.0	25	N/A	N/A
Oil & Grease	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	c	N/A
WET Ceriodaphnia Fathead Minnows	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	>100 >82.5 fail	

Samples Collected: 4/7/98, 5/5/98, and 6/2/98

Antimony, $\mu\text{g/l}$	<1 - 2.5	a	N/A							
Arsenic, $\mu\text{g/l}$	<1 - 1.8	a	N/A							
Beryllium, $\mu\text{g/l}$	<0.25	a	N/A							
Cadmium, $\mu\text{g/l}$	<0.25 - 0.28	a	N/A							
Copper, $\mu\text{g/l}$	2.0 - 5.3	a	N/A							
Iron, $\mu\text{g/l}$	<17.5 - 46.7	a	N/A							
Lead, $\mu\text{g/l}$	<0.5 - 1	a	N/A							
Manganese, $\mu\text{g/l}$	13.0 - 20.4	a	N/A							
Mercury, $\mu\text{g/l}$	<0.10	a	N/A							
Nickel, $\mu\text{g/l}$	<0.5 - 1.3	a	N/A							
Silver, $\mu\text{g/l}$	<0.05 - 0.6	a	N/A							
Zinc, $\mu\text{g/l}$	13.2 - 19.3	a	N/A							
VOCs, $\mu\text{g/l}$	d	a	N/A							

a	Report Only	c	No Sheen Observed
b	Geometric	d	None detected above PQL
N/A	= Not Applicable		
SU	= Standard Units		
TSS	= Total Suspended Solids		
TRC	= Total Residual Chlorine		
CBOD ₅	= Carbonaceous Biochemical Oxygen Demand, 5-Day Test		
PQL	= Practical quantitation limit is equal to 10 times the method detection limit and represents the quantity at which 70% of laboratories can be reported in the 95% upper confidence limit.		
WET	= (Whole Effluent Toxicity) Results for WET are given in percentage of effluent sample that will cause mortality to half the test result organisms within the time frame of the test. For example, >100% indicates that 100% pure effluent did not cause acute toxicity to at least half of the organisms. A lower percentage LC ₅₀ (lethal concentration to 50% of test organisms) indicates a greater toxic effect because less of the sample is required to observe a sufficiently extensive adverse effect.		
Note: Results are the range of values measured during the reporting period.			

Table 3-1 Pond B-3 (Outfall 001A)

Parameter & Units	Dates of Discharge: 4/1/98 - 6/30/98					
	Measured 30-Day Average	Limit 30-Day Average	Measured 7-Day Average	Limit 7-Day Average	Measured Daily Maximum	Limit Daily Maximum
NO ₃ /NO ₂ mg/l	1.9 - 2.1	10	2.3 - 3.3	20	N/A	N/A
TRC mg/l	N/A	N/A	N/A	N/A	0.03 - 0.06	0.5
BOD ₅ mg/l	5.0 - 12.0	a	N/A	N/A	8.0 - 19.0	a
CBOD ₅ mg/l	5	a	N/A	N/A	8.0 - 11.0	a
TSS mg/l	<10	a	N/A	N/A	7.0 - 36.0	a

a Report only.

N/A = Not Applicable

TRC = Total Residual Chlorine

TSS = Total Suspended Solids

BOD₅ = Biochemical Oxygen Demand, 5-Day TestCBOD₅ = Carbonaceous Biochemical Oxygen Demand, 5-Day Test

Note: Results are the range of values measured during the reporting period.

Section 3: Surface Water Data

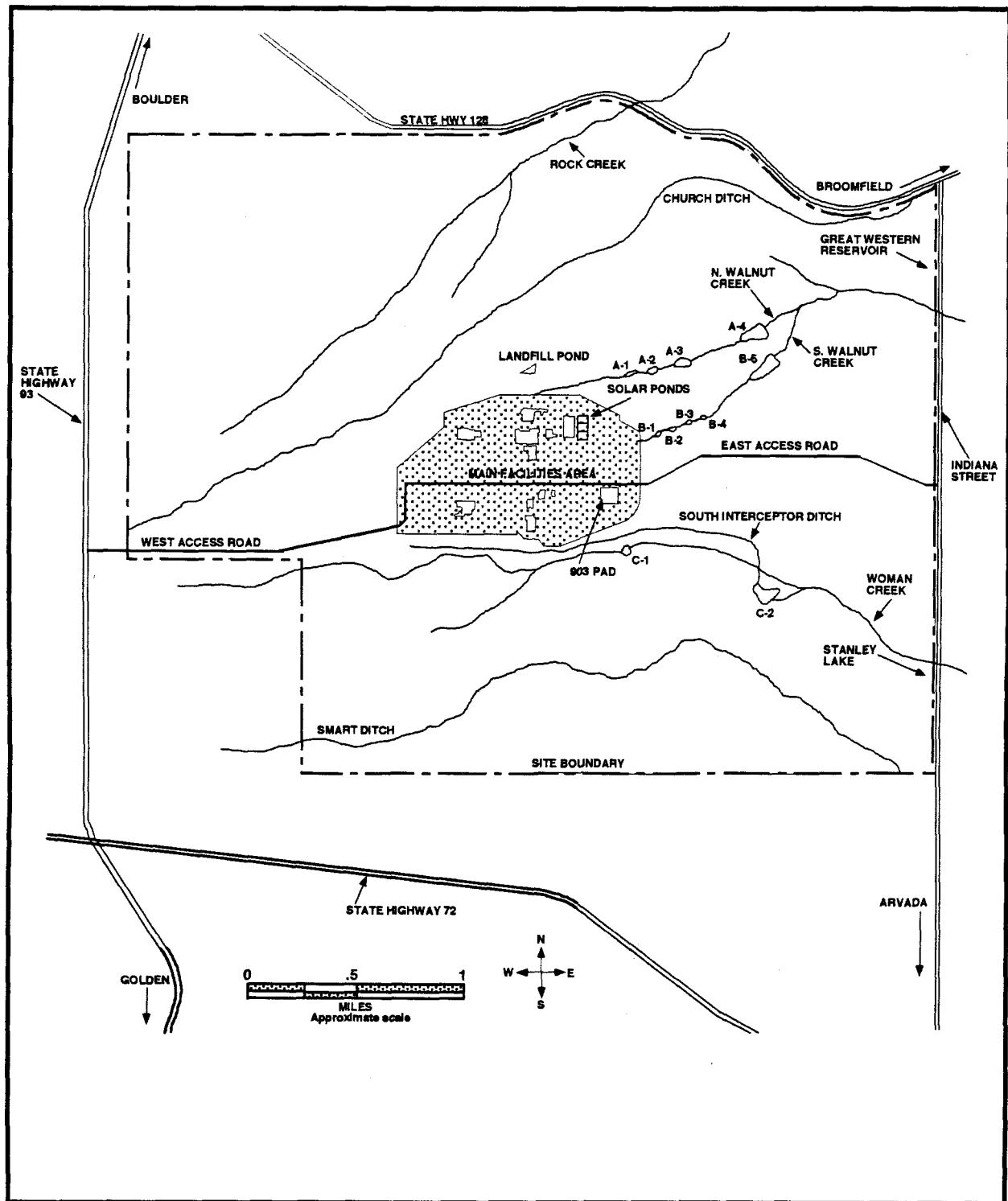


Figure 3-1 Holding Ponds and Liquid Effluent Water Courses

Table 2-9 Climatic Summary for December 1997

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW·h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
12/01	57.67	14.76	37.95	25.36	67.88	5.92	16.49	806.71	1.60	0.02	0.01
12/02	37.04	12.97	25.34	25.02	99.10	9.55	18.90	810.06	0.65	0.17	0.02
12/03	51.12	2.35	25.79	14.07	69.48	11.33	51.92	809.82	3.09	0.01	0.01
12/04	51.13	13.32	30.90	11.66	53.09	13.32	49.91	810.50	2.64	0.00	0.00
12/05	43.26	-9.58	20.66	14.58	86.88	5.16	12.60	811.37	2.02	0.00	0.00
12/06	46.13	4.82	28.19	16.09	70.03	4.13	12.49	807.30	2.70	0.00	0.00
12/07	49.32	24.22	37.89	18.02	50.12	7.75	38.14	800.73	1.49	0.00	0.00
12/08	47.26	26.54	36.89	24.73	66.13	6.46	26.15	797.37	2.02	0.00	0.00
12/09	39.03	15.08	28.11	26.63	94.52	6.04	13.33	802.96	1.11	0.05	0.02
12/10	31.09	8.73	22.03	18.55	86.72	10.39	37.83	813.37	1.68	0.02	0.01
12/11	32.52	6.30	23.98	3.77	49.98	8.60	23.22	817.50	2.92	0.00	0.00
12/12	47.89	15.82	34.90	6.64	41.12	6.78	18.16	817.92	2.88	0.00	0.00
12/13	58.24	27.17	43.85	13.42	36.75	8.53	19.64	818.48	2.85	0.00	0.00
12/14	62.42	38.37	51.85	13.74	27.73	7.26	35.10	815.98	2.83	0.00	0.00
12/15	58.03	25.03	46.68	12.53	30.52	9.39	39.39	810.50	2.67	0.00	0.00
12/16	53.35	21.72	41.86	10.29	32.39	9.47	40.87	813.37	2.74	0.00	0.00
12/17	61.36	34.73	47.97	20.05	35.80	14.78	45.61	810.32	1.57	0.00	0.00
12/18	55.71	22.22	39.87	22.29	57.16	7.70	21.54	808.00	2.18	0.00	0.00
12/19	37.65	14.67	26.04	23.24	92.15	6.81	18.59	812.96	0.38	0.00	0.00
12/20	37.25	14.99	26.22	21.85	88.95	3.75	12.60	809.49	2.31	0.00	0.00
12/21	44.07	16.30	33.21	16.88	61.52	5.05	12.18	803.80	2.17	0.00	0.00
12/22	35.38	16.70	27.53	20.19	73.40	6.50	18.07	811.03	1.95	0.00	0.00
12/23	47.07	13.33	27.99	17.94	73.85	5.84	17.22	805.92	2.66	0.00	0.00
12/24	30.53	8.76	21.84	16.86	82.52	8.91	22.06	807.00	1.30	0.08	0.01
12/25	29.99	4.03	19.31	9.75	78.85	6.05	13.65	810.48	2.64	0.02	0.01
12/26	42.15	15.75	27.63	11.87	59.59	6.83	22.06	814.16	2.79	0.00	0.00
12/27	52.25	13.15	33.87	7.24	34.37	19.64	64.00	807.78	1.85	0.00	0.00
12/28	39.03	3.51	28.54	5.50	37.69	28.81	63.06	810.29	2.83	0.00	0.00
12/29	48.31	33.54	42.10	19.78	41.27	33.84	76.19	810.13	2.68	0.00	0.00
12/30	49.59	21.92	37.40	24.00	65.94	15.96	57.69	813.38	1.98	0.00	0.00
12/31	60.49	22.04	47.80	18.44	38.98	10.83	52.75	813.57	2.81	0.00	0.00

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
46.33	16.23	33.04	16.48	60.79	10.04	76.19	810.07	68.00	0.37	0.02

Table 2-8 Climatic Summary for November 1997

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW-h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
11/01	46.72	27.53	39.48	20.31	47.44	13.02	38.45	814.83	3.80	0.00	0.00
11/02	48.99	22.42	38.06	15.12	43.16	9.42	29.84	816.86	4.05	0.00	0.00
11/03	65.34	21.65	50.69	13.63	26.42	18.86	53.80	813.64	3.21	0.00	0.00
11/04	62.85	24.59	51.90	19.43	36.05	13.44	54.65	813.58	3.93	0.00	0.00
11/05	56.03	25.65	43.73	28.45	66.77	7.35	16.91	817.55	3.75	0.00	0.00
11/06	62.91	29.35	51.12	26.48	50.98	5.51	14.91	816.23	3.76	0.00	0.00
11/07	68.47	39.96	55.58	22.31	34.92	5.70	23.00	812.48	3.74	0.00	0.00
11/08	58.10	25.90	41.55	27.06	64.33	7.21	17.43	813.36	2.33	0.09	0.02
11/09	32.13	12.74	25.17	24.29	96.06	7.10	22.17	814.71	1.73	0.31	0.02
11/10	25.61	10.85	20.19	18.58	93.01	4.01	9.76	809.68	2.59	0.00	0.00
11/11	26.58	13.15	20.24	19.46	95.77	6.81	19.64	808.94	1.49	0.05	0.01
11/12	41.85	12.00	24.39	20.66	90.09	5.36	16.49	803.22	3.10	0.06	0.01
11/13	41.63	5.09	28.41	19.83	76.82	6.84	22.06	801.87	3.15	0.09	0.01
11/14	22.35	-5.01	10.96	2.94	75.90	4.77	13.33	809.27	3.56	0.07	0.02
11/15	34.83	-5.46	14.94	2.24	71.01	5.77	11.13	811.95	3.74	0.00	0.00
11/16	41.76	4.86	29.44	6.86	46.30	6.29	38.45	812.95	3.59	0.00	0.00
11/17	48.34	25.82	37.67	16.01	42.85	19.66	52.12	812.82	3.12	0.00	0.00
11/18	48.74	26.31	37.80	14.01	40.40	15.41	55.27	814.15	3.42	0.00	0.00
11/19	61.18	30.75	43.67	17.62	38.02	11.02	56.12	809.37	3.21	0.00	0.00
11/20	52.56	26.11	40.58	20.80	48.14	12.17	35.93	809.11	2.86	0.00	0.00
11/21	43.20	22.30	35.57	14.41	43.87	13.95	48.34	808.78	1.74	0.00	0.00
11/22	43.61	20.90	34.58	15.14	50.86	8.40	32.88	811.65	2.74	0.00	0.00
11/23	54.73	18.55	37.70	17.33	53.26	6.46	34.25	810.81	1.02	0.00	0.00
11/24	70.02	33.78	51.55	16.22	29.61	9.87	34.78	813.87	3.19	0.00	0.00
11/25	67.71	35.92	53.25	13.82	23.57	17.79	50.02	811.39	3.03	0.00	0.00
11/26	57.34	13.87	38.62	20.46	54.68	8.15	44.34	809.52	1.72	0.00	0.00
11/27	62.17	19.94	42.76	30.10	67.53	9.04	28.57	800.61	1.07	0.17	0.03
11/28	52.41	23.77	38.14	30.93	81.40	7.20	20.38	809.64	1.29	0.01	0.01
11/29	53.76	18.68	39.98	23.77	63.77	8.23	18.48	812.73	3.00	0.00	0.00
11/30	52.92	18.75	35.63	24.07	74.04	5.49	11.76	809.54	2.56	0.00	0.00

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
50.16	20.02	37.11	18.74	57.57	9.34	56.12	811.17	85.47	0.85	0.03

Meteorology and Climatology - Errata

Table 2-7 Climatic Summary for October 1997

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW·h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
10/01	81.07	50.25	69.42	38.74	38.65	6.88	15.97	816.80	5.37	0.00	0.00
10/02	80.83	52.03	69.99	37.12	34.37	10.54	54.96	810.48	4.00	0.00	0.00
10/03	73.53	53.40	64.25	33.14	33.46	16.06	51.92	809.87	5.41	0.00	0.00
10/04	85.62	49.08	68.17	23.92	24.89	8.92	45.81	812.04	5.55	0.00	0.00
10/05	82.27	58.66	71.96	25.06	19.87	8.40	36.66	811.90	5.46	0.00	0.00
10/06	71.94	46.90	57.41	29.77	40.23	6.85	17.34	812.55	5.20	0.00	0.00
10/07	77.77	42.98	63.85	33.35	39.25	10.84	40.44	802.99	4.30	0.00	0.00
10/08	62.67	41.73	50.28	27.18	43.83	13.87	48.65	805.78	4.76	0.04	0.03
10/09	65.88	35.27	50.05	25.70	46.31	5.80	21.94	814.36	5.22	0.00	0.00
10/10	79.03	48.02	62.41	31.06	35.22	7.67	38.45	811.42	3.62	0.00	0.00
10/11	84.09	39.67	62.65	36.62	41.93	19.00	59.59	799.74	4.55	0.00	0.00
10/12	48.87	23.67	37.22	25.43	67.12	13.26	40.98	804.10	3.13	0.44	0.04
10/13	59.59	23.36	42.70	16.01	33.96	22.80	62.75	815.33	4.97	0.00	0.00
10/14	68.63	30.19	54.02	24.59	36.60	5.75	19.64	820.54	4.88	0.00	0.00
10/15	62.56	34.98	52.37	26.99	45.20	6.27	18.48	822.67	4.70	0.00	0.00
10/16	65.70	34.03	53.56	26.65	43.77	6.13	16.69	820.67	4.76	0.00	0.00
10/17	78.19	43.81	63.75	23.88	27.09	6.49	27.63	816.17	4.77	0.00	0.00
10/18	78.71	43.09	63.65	18.57	21.06	12.31	33.51	813.71	4.93	0.00	0.00
10/19	50.13	33.75	41.74	36.83	82.21	6.44	22.28	817.37	1.84	0.00	0.00
10/20	49.37	31.94	41.15	38.07	88.34	6.48	18.90	816.71	1.37	0.02	0.01
10/21	51.40	32.20	42.13	37.71	90.68	4.66	13.23	816.00	2.87	0.00	0.00
10/22	64.22	38.89	53.70	27.29	42.22	6.58	19.53	810.41	4.42	0.00	0.00
10/23	61.05	31.40	50.42	24.02	40.36	6.99	29.95	804.25	3.01	0.09	0.04
10/24	52.45	-7.62	29.57	27.96	99.08	15.35	36.57	804.92	1.12	0.58	0.03
10/25	37.86	2.26	22.66	18.81	94.49	10.82	30.47	812.18	2.20	0.63	0.05
10/26	57.79	13.84	35.05	16.50	61.06	5.56	15.75	812.10	4.59	0.00	0.00
10/27	74.88	31.45	50.15	21.09	38.75	6.75	25.64	810.28	4.50	0.00	0.00
10/28	72.72	25.03	44.28	26.10	58.13	7.12	21.74	811.86	4.18	0.00	0.00
10/29	62.17	31.74	51.35	22.92	38.05	13.57	45.19	810.20	3.82	0.00	0.00
10/30	61.83	38.69	52.42	26.20	37.64	23.90	68.09	809.29	3.05	0.00	0.00
10/31	67.86	27.61	49.17	29.54	52.71	18.32	76.93	807.67	2.53	0.07	0.03

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
66.80	34.91	52.31	27.64	48.27	10.33	76.93	811.75	125.09	1.87	0.05

Table 2-6 Climatic Summary for June 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW·h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
06/01	a	a	a	a	a	a	a	a	a	a	a
06/02	a	a	a	a	a	a	a	a	a	a	a
06/03	a	a	a	a	a	a	a	a	a	a	a
06/04	a	a	a	a	a	a	a	a	a	a	a
06/05	a	a	a	a	a	a	a	a	a	a	a
06/06	a	a	a	a	a	a	a	a	a	a	a
06/07	a	a	a	a	a	a	a	a	a	a	a
06/08	a	a	a	a	a	a	a	a	a	a	a
06/09	a	a	a	a	a	a	a	a	a	a	a
06/10	a	a	a	a	a	a	a	a	a	a	a
06/11	a	a	a	a	a	a	a	a	a	a	a
06/12	a	a	a	a	a	a	a	a	a	a	a
06/13	a	a	a	a	a	a	a	a	a	a	a
06/14	a	a	a	a	a	a	a	a	a	a	a
06/15	a	a	a	a	a	a	a	a	a	a	a
06/16	a	a	a	a	a	a	a	a	a	a	a
06/17	a	a	a	a	a	a	a	a	a	a	a
06/18	a	a	a	a	a	a	a	a	a	a	a
06/19	a	a	a	a	a	a	a	a	a	a	a
06/20	a	a	a	a	a	a	a	a	a	a	a
06/21	a	a	a	a	a	a	a	a	a	a	a
06/22	a	a	a	a	a	a	a	a	a	a	a
06/23	a	a	a	a	a	a	a	a	a	a	a
06/24	a	a	a	a	a	a	a	a	a	a	a
06/25	a	a	a	a	a	a	a	a	a	a	a
06/26	a	a	a	a	a	a	a	a	a	a	a
06/27	a	a	a	a	a	a	a	a	a	a	a
06/28	a	a	a	a	a	a	a	a	a	a	a
06/29	a	a	a	a	a	a	a	a	a	a	a
06/30	a	a	a	a	a	a	a	a	a	a	a

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Monthly Total	Monthly Max
a	a	a	a	a	a	a	a	a	a	a

a Data not available as a result of data processing problems. Data will be reported when available.

Table 2-5 Climatic Summary for May 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW·h/m²)	Water-Equiv Precip (in.)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total	Peak Total (15 min)
05/01	59.54	47.41	54.02	33.70	51.26	9.34	38.88	812.10	5.23	0.00 0.00
05/02	60.22	37.17	50.77	37.71	64.29	5.66	20.80	812.73	6.75	0.00 0.00
05/03	69.87	42.18	56.17	36.00	51.79	7.42	31.52	811.16	6.73	0.00 0.00
05/04	69.13	42.15	58.75	30.73	44.73	10.75	33.62	809.84	6.57	0.29 0.06
05/05	62.62	42.08	49.56	41.64	77.30	7.60	22.91	808.87	5.64	0.28 0.09
05/06	58.89	41.67	48.89	38.86	70.91	7.65	30.36	808.87	4.24	0.14 0.04
05/07	63.64	40.55	48.74	39.73	73.94	9.44	35.93	809.97	7.40	0.01 0.01
05/08	56.25	36.47	45.01	39.92	83.85	9.69	30.78	808.14	3.85	0.42 0.05
05/09	58.77	36.05	46.91	39.66	77.86	6.22	16.60	810.84	6.38	0.00 0.00
05/10	68.50	42.06	55.96	42.62	66.80	6.53	19.84	808.50	7.49	0.00 0.00
05/11	63.54	44.15	52.35	40.54	67.91	6.67	25.84	805.66	5.01	0.00 0.00
05/12	61.90	38.04	51.98	41.37	72.37	6.45	16.29	806.17	6.85	0.00 0.00
05/13	80.13	47.89	63.58	32.72	41.46	10.21	42.46	803.30	8.13	0.00 0.00
05/14	66.97	46.06	55.02	36.84	54.86	9.48	38.34	805.96	4.94	0.00 0.00
05/15	64.00	44.76	54.40	23.28	30.71	17.15	52.43	811.16	8.49	0.00 0.00
05/16	69.55	45.03	58.41	32.25	42.57	9.08	18.16	814.16	7.88	0.00 0.00
05/17	79.02	56.41	67.63	23.12	23.33	10.20	32.68	811.97	7.94	0.00 0.00
05/18	80.71	57.90	68.43	30.45	28.75	9.32	23.96	814.18	5.61	0.00 0.00
05/19	75.60	54.18	65.67	35.91	37.62	7.44	30.27	815.58	5.71	0.00 0.00
05/20	76.62	48.40	62.88	45.06	57.83	6.54	19.44	814.38	6.28	0.00 0.00
05/21	74.61	51.87	63.87	42.12	50.94	7.21	26.37	809.46	6.30	0.00 0.00
05/22	60.98	43.06	51.28	48.08	87.80	7.55	24.70	809.73	3.43	0.76 0.18
05/23	66.42	40.88	53.62	39.31	65.18	7.35	27.00	811.31	7.19	0.00 0.00
05/24	65.55	45.03	53.71	40.51	66.12	9.20	29.84	813.93	5.20	0.03 0.02
05/25	67.21	42.98	55.91	42.80	66.70	6.51	26.26	814.05	7.32	0.00 0.00
05/26	71.53	47.84	60.35	46.19	65.09	6.01	24.05	808.04	6.79	0.00 0.00
05/27	80.19	50.04	66.44	36.44	41.64	7.81	20.27	810.64	8.42	0.00 0.00
05/28	78.44	54.48	67.76	37.75	36.82	7.53	18.07	815.03	8.24	0.00 0.00
05/29	78.06	55.31	67.43	39.46	39.64	7.45	19.33	813.27	6.56	0.00 0.00
05/30	81.36	59.22	70.91	26.52	22.51	8.58	27.42	810.92	7.62	0.00 0.00
05/31	71.82	48.74	60.71	42.44	54.68	7.09	15.65	816.61	7.09	0.00 0.00

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
69.08	46.13	57.65	37.54	55.40	8.23	52.43	810.86	201.32	1.93	0.18

Table 2-4 Climatic Summary for April 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW-h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
04/01	56.59	33.70	45.63	21.20	45.57	6.86	21.43	806.03	6.49	0.00	0.00
04/02	42.33	29.38	32.66	30.81	91.98	14.54	30.58	806.08	1.48	0.41	0.04
04/03	43.71	29.28	37.17	29.31	82.61	5.16	11.13	813.22	6.85	0.00	0.00
04/04	52.29	32.76	42.77	29.83	66.33	7.41	29.30	805.53	6.39	0.00	0.00
04/05	57.58	37.54	46.92	24.10	44.72	9.76	32.57	804.36	6.55	0.00	0.00
04/06	43.31	32.99	38.94	30.66	75.36	4.90	28.16	803.35	1.90	0.02	0.02
04/07	42.35	29.98	35.07	31.84	88.13	6.64	32.77	804.74	3.71	0.38	0.07
04/08	45.09	29.53	35.97	28.43	78.86	4.93	27.85	810.78	6.21	0.00	0.00
04/09	51.53	30.31	42.28	23.65	53.02	8.63	32.37	813.47	6.51	0.00	0.00
04/10	57.33	34.39	47.53	23.14	45.99	6.81	21.74	814.05	6.83	0.00	0.00
04/11	73.94	41.18	60.00	21.04	29.40	14.11	48.23	802.91	6.94	0.00	0.00
04/12	58.64	43.46	50.68	20.57	30.86	19.47	60.96	798.00	7.10	0.00	0.00
04/13	51.21	31.08	42.49	25.12	55.07	12.71	42.03	806.15	3.79	0.15	0.02
04/14	38.27	30.83	33.78	33.73	97.39	4.65	18.39	804.88	1.54	0.04	0.01
04/15	37.12	28.45	31.12	31.45	97.79	6.42	18.28	805.87	1.62	0.52	0.06
04/16	33.39	24.54	28.56	25.16	88.63	5.77	16.29	810.22	3.85	0.21	0.03
04/17	42.32	24.90	33.11	25.08	76.34	5.53	17.34	811.29	7.08	0.24	0.04
04/18	39.88	26.80	33.05	25.00	76.18	7.17	25.52	814.16	6.99	0.27	0.03
04/19	49.32	31.03	41.51	24.72	54.34	9.92	41.41	813.12	5.71	0.08	0.02
04/20	42.43	30.27	36.39	34.00	89.78	6.42	17.43	817.25	3.48	0.05	0.01
04/21	51.94	34.00	43.80	30.79	67.19	5.96	16.17	819.73	7.51	0.00	0.00
04/22	61.72	37.95	51.22	27.13	47.81	6.62	17.43	817.66	7.67	0.00	0.00
04/23	71.19	45.55	60.12	27.05	35.28	7.57	23.85	811.84	6.52	0.00	0.00
04/24	70.83	48.02	61.13	25.15	29.63	14.10	51.07	803.18	6.50	0.00	0.00
04/25	58.14	35.50	48.01	32.35	59.22	9.51	28.68	806.27	5.30	0.18	0.05
04/26	48.60	31.08	39.14	32.44	77.66	9.10	32.68	814.77	4.53	0.52	0.05
04/27	53.20	33.87	42.31	30.39	65.07	8.64	25.10	817.75	7.33	0.00	0.00
04/28	54.09	36.82	44.57	29.66	62.25	6.99	22.28	817.17	7.66	0.00	0.00
04/29	60.08	37.94	50.35	25.35	45.24	6.67	21.43	814.87	7.84	0.00	0.00
04/30	66.45	46.65	57.01	27.85	38.25	10.85	46.01	813.42	6.72	0.00	0.00

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
51.83	33.99	43.11	27.57	63.20	8.46	60.96	810.07	168.59	3.07	0.07

Table 2-3 Climatic Summary for March 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW-h/m²)	Water-Equiv Precip (in.)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total	Peak Total (15 min)
03/01	35.33	18.48	26.89	-2.86	28.98	14.47	33.20	809.79	5.12	0.00
03/02	38.34	17.06	27.85	9.98	52.35	7.24	17.65	809.90	4.92	0.00
03/03	51.10	25.61	39.31	13.82	40.01	9.09	48.54	803.81	5.06	0.00
03/04	34.89	23.16	27.12	23.45	86.33	7.56	24.70	802.78	2.48	0.02
03/05	38.30	18.50	27.02	17.65	72.81	9.52	25.75	807.07	4.98	0.01
03/06	33.69	18.27	24.85	17.85	75.18	9.05	24.70	800.92	4.31	0.13
03/07	21.03	6.69	13.48	11.55	90.44	10.26	25.75	806.60	3.81	0.08
03/08	28.00	2.88	17.16	6.26	71.24	6.51	16.06	810.58	5.64	0.00
03/09	22.74	9.91	16.31	12.47	84.72	4.27	13.12	814.06	4.85	0.00
03/10	40.26	13.39	30.86	14.29	54.63	12.85	52.32	814.87	4.35	0.03
03/11	28.71	4.19	14.73	11.76	86.22	4.75	12.49	815.60	4.51	0.00
03/12	49.48	28.61	40.84	20.17	53.30	5.06	12.18	813.77	5.77	0.00
03/13	57.07	31.16	44.77	20.28	46.49	5.72	16.69	813.27	5.79	0.00
03/14	53.64	25.55	40.69	25.61	64.29	5.73	17.02	813.34	5.76	0.00
03/15	53.56	33.76	45.48	26.30	53.78	6.58	18.07	811.71	5.62	0.00
03/16	45.95	28.20	36.52	31.86	84.94	5.56	18.16	808.79	3.78	0.00
03/17	50.65	29.27	38.48	34.03	84.55	6.63	24.79	803.51	3.90	0.21
03/18	33.24	22.31	27.63	27.97	98.68	10.97	24.27	806.76	2.18	0.96
03/19	29.28	21.34	24.97	19.62	85.66	4.66	12.18	812.97	5.79	0.00
03/20	40.06	18.90	31.83	19.25	71.26	6.10	15.65	812.40	6.60	0.00
03/21	50.32	31.79	41.02	20.28	51.89	5.50	22.37	811.91	6.41	0.00
03/22	58.82	46.78	52.92	26.82	39.77	12.34	44.25	811.87	4.40	0.00
03/23	62.67	48.38	56.16	32.53	44.83	11.79	41.72	810.98	4.25	0.00
03/24	69.73	44.01	58.81	30.14	40.96	8.50	20.58	808.03	6.32	0.00
03/25	70.05	49.28	60.06	25.89	33.98	10.49	36.66	805.27	6.32	0.00
03/26	66.81	44.43	54.36	30.40	46.39	12.93	37.51	802.21	5.07	0.01
03/27	59.02	42.42	50.14	31.85	55.13	9.10	36.04	800.69	6.18	0.00
03/28	58.17	36.89	45.93	31.82	64.49	8.97	42.23	797.98	5.24	0.00
03/29	51.53	26.19	36.10	33.29	87.05	9.69	28.57	798.09	4.33	0.12
03/30	30.98	21.32	24.84	22.24	88.45	6.96	23.42	803.03	4.09	0.43
03/31	43.74	15.30	31.60	19.56	64.84	8.81	35.41	803.72	7.00	0.04

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
45.39	25.94	35.77	21.49	64.63	8.31	52.32	807.94	154.84	2.04	0.05

Table 2-2 Climatic Summary for February 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW-h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
02/01	46.09	20.34	34.53	14.96	55.87	5.98	23.85	806.06	3.27	0.00	0.00
02/02	a	22.86	a	a	52.70	a	a	808.94	2.02	0.00	0.00
02/03	42.51	31.81	36.21	25.69	70.28	2.99	6.82	809.94	2.42	0.00	0.00
02/04	33.54	23.45	27.99	25.51	91.99	4.45	13.65	803.58	2.08	0.00	0.00
02/05	31.95	26.75	29.21	29.14	97.24	3.45	10.18	807.22	0.61	0.00	0.00
02/06	45.57	25.62	34.96	26.76	79.30	4.71	12.60	809.88	3.78	0.00	0.00
02/07	43.85	28.80	36.40	25.68	71.75	4.03	14.28	805.43	1.93	0.00	0.00
02/08	46.51	35.09	41.28	17.91	41.83	8.10	33.73	805.65	2.75	0.00	0.00
02/09	39.41	29.61	35.26	26.53	74.14	6.69	16.91	805.43	1.91	0.00	0.00
02/10	39.12	26.36	32.54	11.73	47.24	6.93	23.11	811.57	3.49	0.00	0.00
02/11	41.77	24.15	33.22	5.73	35.83	8.35	30.47	809.58	3.51	0.00	0.00
02/12	43.19	21.81	33.32	8.71	41.00	7.01	30.78	810.50	4.21	0.00	0.00
02/13	48.58	28.04	37.71	12.78	40.00	7.05	21.43	807.86	3.89	0.00	0.00
02/14	46.98	28.34	37.86	19.67	54.21	6.05	17.74	804.33	3.96	0.00	0.00
02/15	42.04	28.12	33.97	24.25	71.91	5.16	13.33	796.78	2.47	0.00	0.00
02/16	30.33	28.43	29.52	30.23	99.69	8.39	19.64	800.47	1.50	0.04	0.01
02/17	39.29	25.87	32.88	27.17	82.36	5.35	16.80	803.94	3.11	0.00	0.00
02/18	39.79	27.35	33.01	24.41	72.48	6.24	25.21	807.49	3.57	0.00	0.00
02/19	39.37	27.15	32.97	14.15	48.99	6.20	22.59	810.80	4.43	0.00	0.00
02/20	39.11	23.87	32.04	13.43	53.68	5.70	17.22	808.27	3.78	0.00	0.00
02/21	49.68	25.33	39.49	14.49	42.65	9.26	31.52	804.40	3.92	0.00	0.00
02/22	50.88	37.07	44.14	16.94	35.88	13.86	40.98	803.41	4.53	0.00	0.00
02/23	48.67	30.93	39.19	25.63	60.80	6.83	24.05	808.92	3.65	0.00	0.00
02/24	58.87	30.32	42.90	24.02	55.99	12.42	49.82	799.50	4.30	0.00	0.00
02/25	43.28	27.41	34.56	8.46	32.56	31.88	84.49	790.52	1.98	0.00	0.00
02/26	32.00	18.84	26.32	-2.02	29.13	18.97	46.24	799.71	5.14	0.00	0.00
02/27	29.16	17.42	23.10	-3.33	32.61	11.87	32.68	804.37	3.65	0.00	0.00
02/28	31.37	19.04	24.00	-5.35	26.51	17.47	40.04	809.29	5.19	0.00	0.00

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
41.59	26.44	34.02	17.16	57.09	8.72	84.49	805.49	91.03	0.04	0.01

a Data not available as a result of data processing problems. Data will be reported when available.

Section 2: Meteorology and Climatology

Table 2-1 Climatic Summary for January 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW-h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
01/01	62.94	47.62	54.39	16.95	24.02	15.68	57.80	809.49	2.75	0.00	0.00
01/02	62.28	41.86	53.69	19.95	29.20	11.28	43.28	804.49	2.69	0.00	0.00
01/03	51.85	17.69	30.32	23.79	85.43	6.07	22.68	807.46	0.48	0.00	0.00
01/04	47.19	12.15	35.36	24.14	76.93	4.01	13.23	805.60	2.89	0.00	0.00
01/05	44.07	20.99	34.97	23.55	71.94	6.80	30.47	804.63	2.31	0.40	0.04
01/06	37.63	12.97	26.60	16.86	84.72	8.47	20.18	812.34	3.24	0.39	0.04
01/07	46.00	14.40	31.68	5.05	42.03	8.66	28.79	808.98	3.08	0.00	0.00
01/08	43.12	24.44	36.53	10.23	36.02	11.23	43.20	803.38	3.08	0.00	0.00
01/09	39.32	-5.87	16.11	9.49	81.25	5.26	21.23	804.77	1.60	0.00	0.00
01/10	43.96	-8.54	25.00	13.57	71.52	7.06	35.19	803.82	1.28	0.00	0.00
01/11	51.12	17.80	42.01	18.51	42.84	14.20	52.01	802.45	2.41	0.00	0.00
01/12	44.71	6.71	21.32	17.23	89.02	4.96	33.08	805.10	1.76	0.00	0.00
01/13	49.28	12.65	36.99	20.36	57.59	11.47	47.40	805.58	1.94	0.00	0.00
01/14	49.84	22.76	34.17	8.13	36.10	13.27	41.29	811.17	3.16	0.00	0.00
01/15	49.73	31.61	41.54	15.12	39.79	14.55	50.33	804.25	2.42	0.00	0.00
01/16	44.09	19.20	34.68	11.99	41.10	21.05	66.10	807.34	2.58	0.00	0.00
01/17	51.30	31.40	42.16	21.60	46.32	16.78	72.92	807.23	2.29	0.00	0.00
01/18	51.08	24.90	38.06	16.10	46.37	10.58	60.53	812.50	3.05	0.00	0.00
01/19	54.18	24.51	37.65	19.17	55.92	8.85	43.91	801.11	2.85	0.00	0.00
01/20	40.21	18.55	32.55	10.17	40.89	21.24	63.37	800.94	3.10	0.00	0.00
01/21	32.62	13.30	25.28	11.99	61.80	8.25	40.35	808.14	2.51	0.00	0.00
01/22	37.01	16.47	30.37	3.95	33.56	13.59	43.40	808.56	0.95	0.00	0.00
01/23	40.75	20.83	31.93	11.38	49.26	7.98	38.56	811.35	3.38	0.00	0.00
01/24	50.68	28.77	43.28	17.18	36.56	19.11	52.86	807.89	1.47	0.00	0.00
01/25	46.06	30.63	38.79	14.20	37.12	15.03	45.07	810.61	3.19	0.00	0.00
01/26	53.60	27.99	43.01	8.65	26.30	11.05	42.77	813.45	2.99	0.00	0.00
01/27	57.60	36.16	48.60	6.45	19.52	13.95	58.74	810.24	3.40	0.00	0.00
01/28	51.31	26.09	41.23	15.56	42.62	18.81	48.34	811.59	2.90	0.00	0.00
01/29	55.40	26.41	40.82	16.22	48.39	7.49	18.90	809.24	3.59	0.00	0.00
01/30	50.20	30.96	42.46	14.53	38.54	7.34	33.31	806.91	2.66	0.00	0.00
01/31	39.16	25.21	32.14	26.92	84.11	7.82	16.69	808.20	1.18	0.00	0.00

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
47.69	21.63	36.25	15.13	50.86	11.35	72.92	807.38	77.20	0.79	0.04

Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-038	01/08/97	02/05/97	34463	N/A	N/A	N/A	N/A	0.0000009	0.0000006
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000004	0.0000008
S-038	03/04/97	04/10/97	45864	N/A	N/A	N/A	N/A	b	b
S-038	04/10/97	05/06/97	31603	N/A	N/A	N/A	N/A	-0.0000002	0.0000015
S-038	05/06/97	06/04/97	35114	N/A	N/A	N/A	N/A	-0.0000001	0.0000014
S-038	06/04/97	07/08/97	39908	N/A	N/A	N/A	N/A	0.0000025	0.0000018
S-038	07/08/97	08/12/97	40489	N/A	N/A	N/A	N/A	d	d
S-038	08/12/97	09/10/97	35053	N/A	N/A	N/A	N/A	-0.0000004	0.0000018
S-038	09/10/97	10/09/97	34410	N/A	N/A	N/A	N/A	0.0000004	0.0000017
S-038	10/09/97	11/06/97	34352	N/A	N/A	N/A	N/A	0.0000022	0.0000030
S-038	11/06/97	12/05/97	36306	N/A	N/A	N/A	N/A	-0.0000006	0.0000013
S-038	12/05/97	01/21/98	58215	N/A	N/A	N/A	N/A	-0.0000001	0.0000009

- a These data have not been corrected for temperature.
- b Laboratory analysis failed; there is no data available.
- c Sample was lost; no results are available.
- d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-142	01/08/97	02/05/97	45696	0.0000000	0.0000004	0.0000004	0.0000005	0.0000004	0.0000006
S-142	02/05/97	03/05/97	45880	0.0000007	0.0000009	-0.0000006	0.0000004	0.0000001	0.0000010
S-142	03/05/97	04/10/97	58391	b	b	-0.0000008	0.0000008	b	b
S-142	04/10/97	05/06/97	42733	0.0000001	0.0000007	-0.0000001	0.0000004	0.0000000	0.0000008
S-142	05/06/97	06/04/97	47232	-0.0000002	0.0000007	-0.0000001	0.0000021	-0.0000004	0.0000022
S-142	06/04/97	07/08/97	55537	-0.0000001	0.0000004	-0.0000001	0.0000010	-0.0000002	0.0000011
S-142	07/08/97	08/12/97	56665	0.0000002	0.0000006	0.0000005	0.0000015	0.0000007	0.0000017
S-142	08/12/97	09/10/97	47681	0.0000006	0.0000008	0.0000010	0.0000012	0.0000016	0.0000014
S-142	09/10/97	10/09/97	46967	-0.0000001	0.0000006	0.0000000	0.0000008	0.0000000	0.0000010
S-142	10/09/97	11/06/97	46029	-0.0000002	0.0000005	-0.0000001	0.0000021	-0.0000002	0.0000022
S-142	11/06/97	12/05/97	47253	0.0000000	0.0000006	0.0000001	0.0000020	0.0000001	0.0000021
S-142	12/05/97	01/21/98	76591	0.0000004	0.0000005	0.0000001	0.0000009	0.0000004	0.0000010
S-201	01/07/97	02/05/97	46906	0.0000035	0.0000013	0.0000000	0.0000005	0.0000036	0.0000014
S-201	02/05/97	03/04/97	43345	-0.0000003	0.0000010	-0.0000003	0.0000005	-0.0000006	0.0000011
S-201	03/04/97	04/08/97	57018	b	b	-0.0000003	0.0000004	b	b
S-201	04/08/97	05/08/97	48856	0.0000000	0.0000007	-0.0000001	0.0000023	-0.0000001	0.0000024
S-201	05/08/97	06/10/97	51650	-0.0000004	0.0000004	-0.0000001	0.0000013	-0.0000005	0.0000014
S-201	06/10/97	07/09/97	45636	c	c	c	c	c	c
S-201	07/09/97	08/12/97	54810	0.0000001	0.0000005	0.0000005	0.0000012	0.0000006	0.0000013
S-201	08/12/97	09/11/97	48571	-0.0000004	0.0000005	0.0000005	0.0000013	0.0000001	0.0000014
S-201	09/11/97	10/09/97	44561	0.0000000	0.0000010	-0.0000002	0.0000011	-0.0000002	0.0000015
S-201	10/09/97	11/07/97	47035	-0.0000004	0.0000012	0.0000009	0.0000022	0.0000005	0.0000026
S-201	11/07/97	12/05/97	45907	0.0000009	0.0000011	-0.0000003	0.0000015	0.0000006	0.0000019
S-201	12/05/97	01/21/98	76448	0.0000003	0.0000009	-0.0000006	0.0000003	-0.0000003	0.0000010
S-207	01/08/97	02/05/97	45696	0.0000001	0.0000004	-0.0000003	0.0000004	-0.0000002	0.0000005
S-207	02/05/97	03/04/97	43916	0.0000000	0.0000006	-0.0000005	0.0000005	-0.0000006	0.0000007
S-207	03/04/97	04/10/97	59975	b	b	0.0000000	0.0000006	b	b
S-207	04/10/97	05/06/97	42679	-0.0000006	0.0000007	c	c	c	c
S-207	05/06/97	06/04/97	47287	0.0000004	0.0000007	-0.0000001	0.0000013	0.0000002	0.0000015
S-207	06/04/97	07/08/97	55537	-0.0000004	0.0000009	0.0000002	0.0000006	-0.0000002	0.0000011
S-207	07/08/97	08/12/97	56665	-0.0000002	0.0000004	0.0000013	0.0000022	0.0000011	0.0000023
S-207	08/12/97	09/10/97	47654	-0.0000005	0.0000009	0.0000022	0.0000030	0.0000017	0.0000031
S-207	09/10/97	10/09/97	46960	-0.0000010	0.0000012	-0.0000001	0.0000019	-0.0000011	0.0000022
S-207	10/09/97	11/06/97	46036	-0.0000006	0.0000006	-0.0000004	0.0000018	-0.0000010	0.0000019
S-207	11/06/97	12/05/97	47035	0.0000000	0.0000006	-0.0000005	0.0000015	-0.0000005	0.0000016
S-207	12/05/97	01/21/98	76584	-0.0000001	0.0000005	-0.0000003	0.0000008	-0.0000003	0.0000009
S-209	01/08/97	02/05/97	45690	0.0000001	0.0000005	0.0000001	0.0000005	0.0000002	0.0000007
S-209	02/05/97	03/05/97	45887	0.0000012	0.0000008	0.0000001	0.0000008	0.0000013	0.0000012
S-209	03/05/97	04/10/97	58391	b	b	-0.0000005	0.0000007	b	b
S-209	04/10/97	05/06/97	42733	-0.0000001	0.0000006	0.0000009	0.0000013	0.0000009	0.0000014
S-209	05/06/97	06/04/97	47232	-0.0000002	0.0000007	0.0000009	0.0000016	0.0000007	0.0000017
S-209	06/04/97	07/08/97	55537	-0.0000002	0.0000007	0.0000007	0.0000014	0.0000005	0.0000016
S-209	07/08/97	08/12/97	56617	0.0000003	0.0000015	0.0000000	0.0000013	0.0000003	0.0000020
S-209	08/12/97	09/10/97	47681	-0.0000003	0.0000010	0.0000004	0.0000010	0.0000001	0.0000014
S-209	09/10/97	10/09/97	46967	0.0000003	0.0000008	0.0000017	0.0000020	0.0000020	0.0000022
S-209	10/09/97	11/06/97	46029	0.0000002	0.0000006	-0.0000015	0.0000014	-0.0000014	0.0000016
S-209	11/06/97	12/05/97	47253	-0.0000007	0.0000013	-0.0000009	0.0000011	-0.0000015	0.0000017
S-209	12/05/97	01/21/98	76598	0.0000005	0.0000005	-0.0000006	0.0000007	-0.0000002	0.0000009

Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-137	01/08/97	02/05/97	45690	0.0000017	0.0000008	0.0000000	0.0000004	0.0000017	0.0000009
S-137	02/05/97	03/04/97	43977	-0.0000002	0.0000006	-0.0000006	0.0000013	-0.0000008	0.0000014
S-137	03/04/97	04/10/97	60192	-0.0000001	0.0000027	0.0000005	0.0000013	0.0000004	0.0000030
S-137	04/10/97	05/08/97	45683	0.0000001	0.0000009	-0.0000009	0.0000016	-0.0000008	0.0000018
S-137	05/08/97	06/03/97	42828	-0.0000004	0.0000008	0.0000007	0.0000012	0.0000003	0.0000014
S-137	06/03/97	07/10/97	59744	0.0000004	0.0000006	0.0000011	0.0000017	0.0000015	0.0000018
S-137	07/10/97	08/12/97	54171	-0.0000004	0.0000013	-0.0000003	0.0000008	-0.0000007	0.0000015
S-137	08/12/97	09/11/97	48958	0.0000001	0.0000006	0.0000000	0.0000011	0.0000001	0.0000012
S-137	09/11/97	10/09/97	41537	0.0000001	0.0000008	-0.0000002	0.0000011	-0.0000002	0.0000013
S-137	10/09/97	11/07/97	51283	-0.0000003	0.0000006	-0.0000006	0.0000015	-0.0000009	0.0000016
S-137	11/07/97	12/05/97	45927	-0.0000002	0.0000008	0.0000001	0.0000020	-0.0000001	0.0000021
S-137	12/05/97	01/21/98	76305	0.0000003	0.0000007	-0.0000005	0.0000007	-0.0000002	0.0000010
S-138	01/08/97	02/05/97	45690	0.0000004	0.0000006	0.0000001	0.0000004	0.0000005	0.0000007
S-138	02/05/97	03/04/97	44188	-0.0000002	0.0000004	0.0000004	0.0000008	0.0000001	0.0000009
S-138	03/04/97	04/10/97	59968	-0.0000001	0.0000032	0.0000004	0.0000005	0.0000003	0.0000032
S-138	04/10/97	05/06/97	42652	0.0000000	0.0000008	0.0000007	0.0000018	0.0000007	0.0000020
S-138	05/06/97	06/04/97	47287	-0.0000003	0.0000006	0.0000013	0.0000018	0.0000010	0.0000019
S-138	06/04/97	07/08/97	55251	0.0000002	0.0000006	0.0000002	0.0000016	0.0000004	0.0000017
S-138	07/08/97	08/12/97	56624	0.0000004	0.0000006	-0.0000002	0.0000007	0.0000002	0.0000009
S-138	08/12/97	09/10/97	47681	0.0000003	0.0000006	0.0000018	0.0000020	0.0000022	0.0000021
S-138	09/10/97	10/09/97	46954	-0.0000003	0.0000009	0.0000015	0.0000019	0.0000012	0.0000021
S-138	10/09/97	11/06/97	46029	-0.0000001	0.0000006	0.0000008	0.0000021	0.0000007	0.0000022
S-138	11/06/97	12/05/97	45289	0.0000017	0.0000011	-0.0000017	0.0000011	0.0000000	0.0000016
S-138	12/05/97	01/21/98	76367	0.0000006	0.0000007	0.0000002	0.0000009	0.0000007	0.0000011
S-140	01/08/97	02/05/97	45690	-0.0000002	0.0000002	-0.0000001	0.0000003	-0.0000003	0.0000004
S-140	02/05/97	03/05/97	45880	0.0000003	0.0000006	-0.0000003	0.0000006	0.0000000	0.0000008
S-140	03/05/97	04/10/97	58384	b	b	-0.0000001	0.0000004	b	b
S-140	04/10/97	05/06/97	42733	-0.0000007	0.0000007	0.0000008	0.0000013	0.0000001	0.0000015
S-140	05/06/97	06/04/97	47239	-0.0000003	0.0000007	-0.0000001	0.0000014	-0.0000004	0.0000016
S-140	06/04/97	07/08/97	55544	0.0000001	0.0000005	0.0000021	0.0000022	0.0000022	0.0000023
S-140	07/08/97	08/12/97	56658	0.0000000	0.0000006	-0.0000001	0.0000011	-0.0000001	0.0000012
S-140	08/12/97	09/10/97	47681	0.0000001	0.0000006	-0.0000002	0.0000011	-0.0000001	0.0000012
S-140	09/10/97	10/09/97	46960	-0.0000005	0.0000010	0.0000000	0.0000007	-0.0000005	0.0000012
S-140	10/09/97	11/06/97	46036	-0.0000001	0.0000006	0.0000003	0.0000015	0.0000002	0.0000017
S-140	11/06/97	12/05/97	47246	0.0000016	0.0000011	-0.0000004	0.0000022	0.0000012	0.0000025
S-140	12/05/97	01/21/98	76605	0.0000005	0.0000006	0.0000006	0.0000011	0.0000011	0.0000013
S-141	01/08/97	02/05/97	45690	0.0000002	0.0000004	0.0000000	0.0000004	0.0000002	0.0000006
S-141	02/05/97	03/05/97	45887	-0.0000002	0.0000004	-0.0000001	0.0000007	-0.0000003	0.0000008
S-141	03/05/97	04/10/97	58384	b	b	-0.0000003	0.0000005	b	b
S-141	04/10/97	05/06/97	42733	-0.0000014	0.0000010	0.0000003	0.0000010	-0.0000010	0.0000014
S-141	05/06/97	06/04/97	47232	-0.0000005	0.0000007	0.0000002	0.0000011	-0.0000003	0.0000013
S-141	06/04/97	07/08/97	55537	-0.0000004	0.0000004	0.0000004	0.0000019	0.0000001	0.0000020
S-141	07/08/97	08/12/97	56631	0.0000000	0.0000006	0.0000000	0.0000009	0.0000001	0.0000011
S-141	08/12/97	09/10/97	47681	0.0000004	0.0000005	-0.0000007	0.0000011	-0.0000004	0.0000012
S-141	09/10/97	10/09/97	46960	-0.0000001	0.0000008	-0.0000006	0.0000009	-0.0000007	0.0000012
S-141	10/09/97	11/06/97	46036	-0.0000002	0.0000011	0.0000001	0.0000022	0.0000009	0.0000024
S-141	11/06/97	12/05/97	47246	0.0000002	0.0000009	0.0000001	0.0000019	0.0000003	0.0000021
S-141	12/05/97	01/21/98	76605	0.0000001	0.0000005	0.0000007	0.0000011	0.0000008	0.0000012

Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/07/97	02/05/97	47123	0.0000008	0.0000006	-0.0000002	0.0000004	0.0000006	0.0000007
S-131	02/05/97	03/04/97	43963	0.0000007	0.0000010	0.0000006	0.0000009	0.0000012	0.0000014
S-131	03/04/97	04/09/97	58921	0.0000001	0.0000003	0.0000013	0.0000014	0.0000014	0.0000015
S-131	04/09/97	05/08/97	46926	-0.0000002	0.0000006	0.0000007	0.0000022	0.0000004	0.0000023
S-131	05/08/97	06/09/97	52492	0.0000000	0.0000005	0.0000006	0.0000016	0.0000006	0.0000017
S-131	06/09/97	07/09/97	48530	-0.0000007	0.0000008	0.0000018	0.0000022	0.0000011	0.0000023
S-131	07/09/97	08/12/97	55415	-0.0000001	0.0000006	-0.0000003	0.0000007	-0.0000004	0.0000009
S-131	08/12/97	09/11/97	49210	-0.0000001	0.0000006	-0.0000002	0.0000013	-0.0000003	0.0000014
S-131	09/11/97	10/09/97	45574	0.0000007	0.0000011	0.0000010	0.0000019	0.0000017	0.0000022
S-131	10/09/97	11/07/97	47110	0.0000001	0.0000006	0.0000009	0.0000020	0.0000010	0.0000021
S-131	11/07/97	12/05/97	45907	-0.0000002	0.0000013	0.0000032	0.0000038	0.0000029	0.0000040
S-131	12/05/97	01/21/98	76605	-0.0000009	0.0000011	0.0000016	0.0000014	0.0000007	0.0000018
S-132	01/07/97	02/05/97	47117	0.0000013	0.0000007	-0.0000003	0.0000003	0.0000010	0.0000007
S-132	02/05/97	03/04/97	43970	-0.0000003	0.0000004	-0.0000002	0.0000010	-0.0000005	0.0000011
S-132	03/04/97	04/09/97	55415	0.0000010	0.0000062	0.0000004	0.0000008	0.0000014	0.0000063
S-132	04/09/97	05/08/97	42951	0.0000005	0.0000008	-0.0000008	0.0000029	-0.0000003	0.0000030
S-132	05/08/97	06/09/97	49631	-0.0000001	0.0000006	0.0000002	0.0000015	0.0000001	0.0000016
S-132	06/09/97	07/09/97	47728	0.0000005	0.0000008	0.0000005	0.0000019	0.0000010	0.0000021
S-132	07/09/97	08/12/97	55421	0.0000005	0.0000007	-0.0000001	0.0000012	0.0000004	0.0000014
S-132	08/12/97	09/11/97	47762	-0.0000002	0.0000005	-0.0000004	0.0000007	-0.0000006	0.0000008
S-132	09/11/97	10/09/97	45567	-0.0000002	0.0000004	0.0000000	0.0000024	-0.0000002	0.0000024
S-132	10/09/97	11/07/97	47096	0.0000004	0.0000008	0.0000002	0.0000018	0.0000006	0.0000020
S-132	11/07/97	12/05/97	42047	-0.0000003	0.0000008	0.0000014	0.0000034	0.0000012	0.0000035
S-132	12/05/97	01/21/98	76598	-0.0000001	0.0000006	0.0000001	0.0000008	0.0000000	0.0000010
S-134	01/07/97	02/05/97	47198	0.0000007	0.0000005	-0.0000002	0.0000003	0.0000004	0.0000006
S-134	02/05/97	03/04/97	43793	0.0000006	0.0000011	0.0000004	0.0000009	0.0000009	0.0000014
S-134	03/04/97	04/08/97	56998	0.0000004	0.0000041	b	b	b	b
S-134	04/08/97	05/08/97	48870	-0.0000007	0.0000007	0.0000005	0.0000018	-0.0000002	0.0000019
S-134	05/08/97	06/10/97	52132	-0.0000002	0.0000004	0.0000011	0.0000013	0.0000009	0.0000013
S-134	06/10/97	07/09/97	47416	-0.0000003	0.0000006	0.0000012	0.0000017	0.0000009	0.0000018
S-134	07/09/97	08/12/97	54436	-0.0000001	0.0000005	-0.0000003	0.0000006	-0.0000005	0.0000008
S-134	08/12/97	09/11/97	49183	0.0000010	0.0000011	0.0000008	0.0000014	0.0000018	0.0000018
S-134	09/11/97	10/09/97	45628	0.0000000	0.0000007	-0.0000005	0.0000010	-0.0000005	0.0000013
S-134	10/09/97	11/07/97	47198	0.0000008	0.0000007	0.0000003	0.0000021	0.0000011	0.0000022
S-134	11/07/97	12/05/97	45866	0.0000019	0.0000013	0.0000005	0.0000025	0.0000024	0.0000028
S-134	12/05/97	01/21/98	76598	-0.0000002	0.0000004	0.0000007	0.0000010	0.0000005	0.0000011
S-136	01/07/97	02/05/97	46926	0.0000002	0.0000005	-0.0000002	0.0000003	0.0000000	0.0000006
S-136	02/05/97	03/04/97	43977	0.0000004	0.0000012	-0.0000003	0.0000007	0.0000001	0.0000014
S-136	03/04/97	04/10/97	60185	0.0000002	0.0000038	0.0000005	0.0000010	0.0000007	0.0000040
S-136	04/10/97	05/08/97	45690	0.0000002	0.0000006	0.0000003	0.0000022	0.0000005	0.0000023
S-136	05/08/97	06/03/97	41259	-0.0000007	0.0000009	-0.0000001	0.0000015	-0.0000008	0.0000018
S-136	06/03/97	07/10/97	59757	-0.0000003	0.0000006	0.0000008	0.0000017	0.0000005	0.0000018
S-136	07/10/97	08/12/97	53179	0.0000001	0.0000005	0.0000004	0.0000010	0.0000005	0.0000011
S-136	08/12/97	09/11/97	48972	0.0000002	0.0000006	-0.0000007	0.0000008	-0.0000005	0.0000010
S-136	09/11/97	10/10/97	47022	0.0000006	0.0000009	0.0000005	0.0000012	0.0000011	0.0000015
S-136	10/10/97	11/07/97	45785	0.0000000	0.0000012	0.0000001	0.0000019	0.0000001	0.0000023
S-136	11/07/97	12/05/97	45921	0.0000022	0.0000013	-0.0000005	0.0000009	0.0000017	0.0000016
S-136	12/05/97	01/21/98	76312	0.0000000	0.0000004	-0.0000001	0.0000008	-0.0000001	0.0000009

Table 1-12 Americium-241 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/06/97	02/04/97	46974	0.0000430	0.0000053	0.0000037	0.0000011	0.0000467	0.0000054
S-107	02/04/97	03/03/97	44419	0.0000014	0.0000010	0.0000010	0.0000009	0.0000023	0.0000013
S-107	03/03/97	04/08/97	58282	0.0000035	0.0000010	0.0000105	0.0000031	0.0000140	0.0000033
S-107	04/08/97	05/05/97	44459	0.0000022	0.0000014	0.0000067	0.0000038	0.0000089	0.0000040
S-107b	05/05/97	06/03/97	47212	0.0000021	0.0000012	0.0000018	0.0000018	0.0000039	0.0000021
S-107	06/03/97	07/07/97	55496	0.0000014	0.0000008	0.0000031	0.0000022	0.0000044	0.0000023
S-107	07/07/97	08/07/97	50073	0.0000020	0.0000011	0.0000036	0.0000026	0.0000056	0.0000029
S-107	08/07/97	09/09/97	53315	0.0000015	0.0000011	0.0000023	0.0000020	0.0000038	0.0000023
S-107	09/09/97	10/09/97	48523	0.0000039	0.0000016	0.0000038	0.0000025	0.0000077	0.0000030
S-107	10/09/97	11/05/97	44541	0.0000027	0.0000012	0.0000063	0.0000046	0.0000090	0.0000047
S-107	11/05/97	12/04/97	46954	0.0000015	0.0000010	0.0000000	0.0000014	0.0000014	0.0000018
S-107	12/04/97	01/20/98	76917	0.0000010	0.0000006	0.0000003	0.0000009	0.0000012	0.0000010
S-007	01/06/97	02/05/97	39705	N/A	N/A	N/A	N/A	0.0000110	0.0000021
S-007	02/05/97	03/03/97	33885	N/A	N/A	N/A	N/A	0.0000038	0.0000017
S-007c	03/17/97	04/08/97	28638	N/A	N/A	N/A	N/A	d	d
S-007	04/08/97	05/05/97	39805	N/A	N/A	N/A	N/A	0.0000047	0.0000025
S-007	05/05/97	06/03/97	35717	N/A	N/A	N/A	N/A	0.0000047	0.0000020
S-007	06/03/97	07/07/97	40888	N/A	N/A	N/A	N/A	0.0000081	0.0000023
S-007	07/07/97	08/07/97	37198	N/A	N/A	N/A	N/A	e	e
S-007	08/07/97	09/09/97	40532	N/A	N/A	N/A	N/A	0.0000033	0.0000016
S-007	09/09/97	10/09/97	37727	N/A	N/A	N/A	N/A	0.0000112	0.0000034
S-007	10/09/97	11/05/97	31345	N/A	N/A	N/A	N/A	0.0000096	0.0000034
S-007	11/05/97	12/04/97	32446	N/A	N/A	N/A	N/A	0.0000033	0.0000020
S-007	12/04/97	01/20/98	60313	N/A	N/A	N/A	N/A	0.0000037	0.0000015

- a These data have not been corrected for temperature
 b Fine and Coarse samples were cross-contaminated. Total values only are valid.
 c Sample for half of the month was lost; results reflect half month only.
 d Laboratory analysis failed; there is no data for this month.
 e Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-038	01/08/97	02/05/97	34463	N/A	N/A	N/A	N/A	0.0000185	0.0000089
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000080	0.0000095
S-038	03/04/97	04/10/97	45864	N/A	N/A	N/A	N/A	0.0000190	0.0000104
S-038	04/10/97	05/06/97	31603	N/A	N/A	N/A	N/A	0.0000077	0.0000067
S-038	05/06/97	06/04/97	35114	N/A	N/A	N/A	N/A	0.0000196	0.0000063
S-038	06/04/97	07/08/97	39908	N/A	N/A	N/A	N/A	0.0000165	0.0000055
S-038	07/08/97	08/12/97	40489	N/A	N/A	N/A	N/A	c	c
S-038	08/12/97	09/10/97	35053	N/A	N/A	N/A	N/A	0.0000184	0.0000069
S-038	09/10/97	10/09/97	34410	N/A	N/A	N/A	N/A	0.0000125	0.0000069
S-038	10/09/97	11/06/97	34352	N/A	N/A	N/A	N/A	0.0000159	0.0000062
S-038	11/06/97	12/05/97	36306	N/A	N/A	N/A	N/A	0.0000118	0.0000057
S-038	12/05/97	01/21/98	58215	N/A	N/A	N/A	N/A	0.0000113	0.0000039

a These data have not been corrected for temperature.

b Sample was lost; no results are available.

c Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-142	01/08/97	02/05/97	45696	-0.0000054	0.0000059	0.0000063	0.0000018	0.0000009	0.0000062
S-142	02/05/97	03/05/97	45880	-0.0000041	0.0000054	0.0000104	0.0000030	0.0000063	0.0000062
S-142	03/05/97	04/10/97	58391	-0.0000019	0.0000042	0.0000111	0.0000027	0.0000092	0.0000049
S-142	04/10/97	05/06/97	42733	0.0000057	0.0000037	0.0000183	0.0000080	0.0000241	0.0000088
S-142	05/06/97	06/04/97	47232	0.0000052	0.0000032	0.0000096	0.0000050	0.0000148	0.0000059
S-142	06/04/97	07/08/97	55537	0.0000072	0.0000029	0.0000119	0.0000055	0.0000192	0.0000062
S-142	07/08/97	08/12/97	56665	0.0000087	0.0000030	0.0000111	0.0000050	0.0000198	0.0000058
S-142	08/12/97	09/10/97	47681	0.0000081	0.0000034	0.0000111	0.0000054	0.0000192	0.0000064
S-142	09/10/97	10/09/97	46967	0.0000134	0.0000042	0.0000136	0.0000063	0.0000270	0.0000075
S-142	10/09/97	11/06/97	46029	0.0000112	0.0000037	0.0000147	0.0000067	0.0000259	0.0000077
S-142	11/06/97	12/05/97	47253	0.0000070	0.0000031	0.0000096	0.0000059	0.0000166	0.0000067
S-142	12/05/97	01/21/98	76591	0.0000055	0.0000021	0.0000052	0.0000028	0.0000106	0.0000035
S-201	01/07/97	02/05/97	46906	-0.0000001	0.0000071	0.0000072	0.0000024	0.0000070	0.0000075
S-201	02/05/97	03/04/97	43345	-0.0000009	0.0000061	0.0000081	0.0000026	0.0000072	0.0000066
S-201	03/04/97	04/08/97	57018	0.0000010	0.0000057	0.0000127	0.0000027	0.0000138	0.0000063
S-201	04/08/97	05/08/97	48856	0.0000069	0.0000035	0.0000112	0.0000052	0.0000181	0.0000062
S-201	05/08/97	06/10/97	51650	0.0000053	0.0000029	0.0000104	0.0000047	0.0000156	0.0000055
S-201	06/10/97	07/09/97	45636	b	b	b	b	b	b
S-201	07/09/97	08/12/97	54810	0.0000113	0.0000035	0.0000112	0.0000052	0.0000226	0.0000063
S-201	08/12/97	09/11/97	48571	0.0000129	0.0000040	0.0000104	0.0000050	0.0000233	0.0000064
S-201	09/11/97	10/09/97	44561	0.0000087	0.0000038	0.0000135	0.0000062	0.0000222	0.0000073
S-201	10/09/97	11/07/97	47035	0.0000111	0.0000037	0.0000088	0.0000056	0.0000199	0.0000067
S-201	11/07/97	12/05/97	45907	0.0000063	0.0000031	0.0000031	0.0000035	0.0000095	0.0000047
S-201	12/05/97	01/21/98	76448	0.0000051	0.0000019	0.0000049	0.0000027	0.0000099	0.0000033
S-207	01/08/97	02/05/97	45696	-0.0000005	0.0000056	0.0000120	0.0000027	0.0000115	0.0000063
S-207	02/05/97	03/04/97	43916	-0.0000022	0.0000058	0.0000143	0.0000036	0.0000121	0.0000068
S-207	03/04/97	04/10/97	59975	0.0000005	0.0000043	0.0000171	0.0000034	0.0000176	0.0000055
S-207	04/10/97	05/06/97	42679	0.0000135	0.0000044	b	b	b	b
S-207	05/06/97	06/04/97	47287	0.0000051	0.0000031	0.0000139	0.0000060	0.0000190	0.0000067
S-207	06/04/97	07/08/97	55537	0.0000108	0.0000031	0.0000164	0.0000060	0.0000271	0.0000068
S-207	07/08/97	08/12/97	56665	0.0000110	0.0000035	0.0000152	0.0000059	0.0000263	0.0000068
S-207	08/12/97	09/10/97	47654	0.0000079	0.0000033	0.0000169	0.0000070	0.0000248	0.0000077
S-207	09/10/97	10/09/97	46960	0.0000080	0.0000037	0.0000114	0.0000055	0.0000194	0.0000066
S-207	10/09/97	11/06/97	46036	0.0000104	0.0000036	0.0000207	0.0000084	0.0000311	0.0000091
S-207	11/06/97	12/05/97	47035	0.0000119	0.0000037	0.0000113	0.0000061	0.0000232	0.0000071
S-207	12/05/97	01/21/98	76584	0.0000086	0.0000024	0.0000112	0.0000043	0.0000197	0.0000049
S-209	01/08/97	02/05/97	45690	-0.0000044	0.0000060	0.0000117	0.0000031	0.0000073	0.0000068
S-209	02/05/97	03/05/97	45887	-0.0000053	0.0000053	0.0000185	0.0000042	0.0000133	0.0000067
S-209	03/05/97	04/10/97	58391	-0.0000023	0.0000042	0.0000141	0.0000029	0.0000119	0.0000051
S-209	04/10/97	05/06/97	42733	0.0000064	0.0000038	0.0000103	0.0000051	0.0000167	0.0000063
S-209	05/06/97	06/04/97	47232	0.0000079	0.0000036	0.0000111	0.0000050	0.0000190	0.0000062
S-209	06/04/97	07/08/97	55537	0.0000088	0.0000031	0.0000116	0.0000051	0.0000203	0.0000059
S-209	07/08/97	08/12/97	56617	0.0000127	0.0000037	0.0000112	0.0000050	0.0000239	0.0000062
S-209	08/12/97	09/10/97	47681	0.0000093	0.0000036	0.0000079	0.0000050	0.0000172	0.0000061
S-209	09/10/97	10/09/97	46967	0.0000088	0.0000041	0.0000081	0.0000046	0.0000169	0.0000061
S-209	10/09/97	11/06/97	46029	0.0000102	0.0000036	0.0000157	0.0000074	0.0000259	0.0000082
S-209	11/06/97	12/05/97	47253	0.0000119	0.0000040	0.0000138	0.0000067	0.0000257	0.0000078
S-209	12/05/97	01/21/98	76598	0.0000074	0.0000022	0.0000094	0.0000040	0.0000168	0.0000046

Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-137	01/08/97	02/05/97	45690	-0.0000023	0.0000057	0.0000175	0.0000039	0.0000152	0.0000069
S-137	02/05/97	03/04/97	43977	-0.0000046	0.0000059	0.0000145	0.0000033	0.0000100	0.0000067
S-137	03/04/97	04/10/97	60192	-0.0000010	0.0000045	0.0000143	0.0000029	0.0000133	0.0000053
S-137	04/10/97	05/08/97	45683	0.0000054	0.0000036	0.0000165	0.0000089	0.0000219	0.0000096
S-137	05/08/97	06/03/97	42828	0.0000065	0.0000035	0.0000098	0.0000052	0.0000163	0.0000063
S-137	06/03/97	07/10/97	59744	0.0000062	0.0000025	0.0000121	0.0000049	0.0000184	0.0000055
S-137	07/10/97	08/12/97	54171	0.0000090	0.0000032	0.0000110	0.0000050	0.0000199	0.0000059
S-137	08/12/97	09/11/97	48958	0.0000097	0.0000038	0.0000099	0.0000051	0.0000197	0.0000063
S-137	09/11/97	10/09/97	41537	0.0000081	0.0000039	0.0000104	0.0000058	0.0000185	0.0000070
S-137	10/09/97	11/07/97	51283	0.0000088	0.0000032	0.0000105	0.0000050	0.0000193	0.0000060
S-137	11/07/97	12/05/97	45927	0.0000077	0.0000032	0.0000138	0.0000071	0.0000215	0.0000078
S-137	12/05/97	01/21/98	76305	0.0000083	0.0000024	0.0000079	0.0000035	0.0000162	0.0000043
S-138	01/08/97	02/05/97	45690	0.0000013	0.0000065	0.0000097	0.0000026	0.0000110	0.0000069
S-138	02/05/97	03/04/97	44188	-0.0000049	0.0000054	0.0000076	0.0000025	0.0000027	0.0000059
S-138	03/04/97	04/10/97	59968	-0.0000008	0.0000042	0.0000106	0.0000024	0.0000098	0.0000048
S-138	04/10/97	05/06/97	42652	0.0000069	0.0000039	0.0000113	0.0000058	0.0000182	0.0000069
S-138	05/06/97	06/04/97	47287	0.0000053	0.0000031	0.0000137	0.0000060	0.0000190	0.0000067
S-138	06/04/97	07/08/97	55251	0.0000108	0.0000032	0.0000108	0.0000050	0.0000215	0.0000059
S-138	07/08/97	08/12/97	56624	0.0000099	0.0000034	0.0000135	0.0000057	0.0000234	0.0000066
S-138	08/12/97	09/10/97	47681	0.0000095	0.0000037	0.0000157	0.0000068	0.0000252	0.0000077
S-138	09/10/97	10/09/97	46954	0.0000090	0.0000038	0.0000155	0.0000066	0.0000245	0.0000076
S-138	10/09/97	11/06/97	46029	0.0000080	0.0000034	0.0000116	0.0000060	0.0000197	0.0000069
S-138	11/06/97	12/05/97	45289	0.0000057	0.0000032	0.0000099	0.0000060	0.0000157	0.0000068
S-138	12/05/97	01/21/98	76367	0.0000070	0.0000023	0.0000061	0.0000030	0.0000131	0.0000038
S-140	01/08/97	02/05/97	45690	0.0000062	0.0000076	0.0000314	0.0000051	0.0000376	0.0000092
S-140	02/05/97	03/05/97	45880	0.0000072	0.0000063	0.0000393	0.0000070	0.0000465	0.0000094
S-140	03/05/97	04/10/97	58384	0.0000104	0.0000050	0.0000368	0.0000064	0.0000471	0.0000082
S-140	04/10/97	05/06/97	42733	0.0000156	0.0000047	0.0000437	0.0000164	0.0000593	0.0000171
S-140	05/06/97	06/04/97	47239	0.0000074	0.0000037	0.0000269	0.0000101	0.0000343	0.0000108
S-140	06/04/97	07/08/97	55544	0.0000174	0.0000041	0.0000261	0.0000089	0.0000435	0.0000098
S-140	07/08/97	08/12/97	56658	0.0000191	0.0000043	0.0000300	0.0000099	0.0000492	0.0000108
S-140	08/12/97	09/10/97	47681	0.0000156	0.0000044	0.0000300	0.0000099	0.0000456	0.0000109
S-140	09/10/97	10/09/97	46960	0.0000142	0.0000042	0.0000198	0.0000076	0.0000340	0.0000087
S-140	10/09/97	11/06/97	46036	0.0000144	0.0000039	0.0000253	0.0000097	0.0000397	0.0000105
S-140	11/06/97	12/05/97	47246	0.0000253	0.0000052	0.0000486	0.0000189	0.0000739	0.0000196
S-140	12/05/97	01/21/98	76605	0.0000181	0.0000035	0.0000229	0.0000086	0.0000409	0.0000093
S-141	01/08/97	02/05/97	45690	-0.0000031	0.0000067	0.0000102	0.0000028	0.0000071	0.0000072
S-141	02/05/97	03/05/97	45887	-0.0000036	0.0000063	0.0000111	0.0000029	0.0000075	0.0000070
S-141	03/05/97	04/10/97	58384	0.0000006	0.0000046	0.0000123	0.0000027	0.0000129	0.0000054
S-141	04/10/97	05/06/97	42733	0.0000045	0.0000036	0.0000184	0.0000095	0.0000230	0.0000101
S-141	05/06/97	06/04/97	47232	0.0000020	0.0000029	0.0000165	0.0000070	0.0000184	0.0000076
S-141	06/04/97	07/08/97	55537	0.0000049	0.0000027	0.0000111	0.0000095	0.0000160	0.0000098
S-141	07/08/97	08/12/97	56631	0.0000116	0.0000036	0.0000091	0.0000045	0.0000207	0.0000057
S-141	08/12/97	09/10/97	47681	0.0000110	0.0000038	0.0000101	0.0000052	0.0000211	0.0000064
S-141	09/10/97	10/09/97	46960	-0.0000105	0.0000018	0.0000101	0.0000050	-0.0000005	0.0000053
S-141	10/09/97	11/06/97	46036	0.0000124	0.0000041	0.0000209	0.0000084	0.0000333	0.0000094
S-141	11/06/97	12/05/97	47246	0.0000084	0.0000032	0.0000115	0.0000063	0.0000199	0.0000071
S-141	12/05/97	01/21/98	76605	0.0000054	0.0000019	0.0000059	0.0000030	0.0000112	0.0000036

Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/07/97	02/05/97	47123	-0.0000048	0.0000053	0.0000159	0.0000032	0.0000111	0.0000062
S-131	02/05/97	03/04/97	43963	0.0000018	0.0000063	0.0000267	0.0000049	0.0000284	0.0000079
S-131	03/04/97	04/09/97	58921	0.0000066	0.0000058	0.0000230	0.0000041	0.0000296	0.0000071
S-131	04/09/97	05/08/97	46926	0.0000095	0.0000037	0.0000178	0.0000070	0.0000273	0.0000080
S-131	05/08/97	06/09/97	52492	0.0000091	0.0000034	0.0000153	0.0000061	0.0000244	0.0000069
S-131	06/09/97	07/09/97	48530	0.0000154	0.0000042	0.0000198	0.0000079	0.0000352	0.0000089
S-131	07/09/97	08/12/97	55415	0.0000153	0.0000041	0.0000207	0.0000073	0.0000360	0.0000084
S-131	08/12/97	09/11/97	49210	0.0000096	0.0000036	0.0000182	0.0000071	0.0000278	0.0000079
S-131	09/11/97	10/09/97	45574	0.0000068	0.0000038	0.0000102	0.0000052	0.0000170	0.0000064
S-131	10/09/97	11/07/97	47110	0.0000137	0.0000039	0.0000197	0.0000078	0.0000333	0.0000087
S-131	11/07/97	12/05/97	45907	0.0000104	0.0000036	0.0000217	0.0000094	0.0000321	0.0000101
S-131	12/05/97	01/21/98	76605	0.0000076	0.0000023	0.0000125	0.0000047	0.0000200	0.0000052
S-132	01/07/97	02/05/97	47117	0.0000011	0.0000057	0.0000229	0.0000043	0.0000240	0.0000072
S-132	02/05/97	03/04/97	43970	-0.0000012	0.0000079	0.0000208	0.0000044	0.0000195	0.0000090
S-132	03/04/97	04/09/97	55415	0.0000079	0.0000051	0.0000370	0.0000070	0.0000449	0.0000086
S-132	04/09/97	05/08/97	42951	0.0000122	0.0000045	0.0000410	0.0000137	0.0000531	0.0000144
S-132	05/08/97	06/09/97	49631	0.0000137	0.0000039	0.0000268	0.0000092	0.0000405	0.0000100
S-132	06/09/97	07/09/97	47728	0.0000175	0.0000045	0.0000244	0.0000086	0.0000420	0.0000097
S-132	07/09/97	08/12/97	55421	0.0000145	0.0000038	0.0000250	0.0000088	0.0000395	0.0000095
S-132	08/12/97	09/11/97	47762	0.0000159	0.0000044	0.0000298	0.0000101	0.0000457	0.0000110
S-132	09/11/97	10/09/97	45567	0.0000113	0.0000042	0.0000228	0.0000083	0.0000341	0.0000092
S-132	10/09/97	11/07/97	47096	0.0000141	0.0000039	0.0000313	0.0000108	0.0000455	0.0000115
S-132	11/07/97	12/05/97	42047	0.0000135	0.0000042	0.0000383	0.0000148	0.0000518	0.0000153
S-132	12/05/97	01/21/98	76598	0.0000109	0.0000026	0.0000149	0.0000054	0.0000258	0.0000060
S-134	01/07/97	02/05/97	47198	-0.0000052	0.0000056	0.0000083	0.0000026	0.0000031	0.0000062
S-134	02/05/97	03/04/97	43793	-0.0000035	0.0000057	0.0000066	0.0000021	0.0000031	0.0000061
S-134	03/04/97	04/08/97	56998	-0.0000029	0.0000044	0.0000093	0.0000024	0.0000064	0.0000050
S-134	04/08/97	05/08/97	48870	0.0000036	0.0000032	0.0000098	0.0000048	0.0000133	0.0000057
S-134	05/08/97	06/10/97	52132	0.0000046	0.0000028	0.0000113	0.0000049	0.0000159	0.0000056
S-134	06/10/97	07/09/97	47416	0.0000087	0.0000034	0.0000113	0.0000053	0.0000200	0.0000063
S-134	07/09/97	08/12/97	54436	0.0000088	0.0000033	0.0000102	0.0000051	0.0000189	0.0000061
S-134	08/12/97	09/11/97	49183	0.0000086	0.0000034	0.0000087	0.0000049	0.0000173	0.0000059
S-134	09/11/97	10/09/97	45628	0.0000068	0.0000035	0.0000082	0.0000047	0.0000150	0.0000058
S-134	10/09/97	11/07/97	47198	0.0000073	0.0000032	0.0000067	0.0000044	0.0000140	0.0000054
S-134	11/07/97	12/05/97	45866	0.0000029	0.0000028	0.0000046	0.0000045	0.0000075	0.0000053
S-134	12/05/97	01/21/98	76598	0.0000040	0.0000019	0.0000058	0.0000032	0.0000099	0.0000037
S-136	01/07/97	02/05/97	46926	-0.0000042	0.0000057	0.0000076	0.0000022	0.0000034	0.0000061
S-136	02/05/97	03/04/97	43977	-0.0000058	0.0000057	0.0000056	0.0000021	-0.0000002	0.0000061
S-136	03/04/97	04/10/97	60185	0.0000007	0.0000047	0.0000078	0.0000021	0.0000085	0.0000051
S-136	04/10/97	05/08/97	45690	0.0000026	0.0000033	0.0000098	0.0000049	0.0000125	0.0000059
S-136	05/08/97	06/03/97	41259	0.0000044	0.0000035	0.0000080	0.0000047	0.0000124	0.0000058
S-136	06/03/97	07/10/97	59757	0.0000114	0.0000032	0.0000059	0.0000036	0.0000173	0.0000049
S-136	07/10/97	08/12/97	53179	0.0000101	0.0000034	0.0000073	0.0000044	0.0000173	0.0000055
S-136	08/12/97	09/11/97	48972	0.0000086	0.0000036	0.0000112	0.0000057	0.0000198	0.0000067
S-136	09/11/97	10/10/97	47022	0.0000089	0.0000037	0.0000064	0.0000041	0.0000154	0.0000055
S-136	10/10/97	11/07/97	45785	0.0000076	0.0000033	0.0000139	0.0000068	0.0000215	0.0000075
S-136	11/07/97	12/05/97	45921	0.0000058	0.0000030	0.0000111	0.0000064	0.0000169	0.0000070
S-136	12/05/97	01/21/98	76312	0.0000032	0.0000018	0.0000057	0.0000031	0.0000088	0.0000036

Table 1-10 Uranium-238 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/06/97	02/04/97	46974	-0.0000028	0.0000055	0.0000214	0.0000044	0.0000186	0.0000071
S-107	02/04/97	03/03/97	44419	0.0000000	0.0000061	0.0000135	0.0000033	0.0000134	0.0000070
S-107	03/03/97	04/08/97	58282	0.0000040	0.0000047	0.0000206	0.0000043	0.0000247	0.0000064
S-107	04/08/97	05/05/97	44459	0.0000218	0.0000061	0.0000192	0.0000068	0.0000410	0.0000092
S-107b	05/05/97	06/03/97	47212	0.0000085	0.0000037	0.0000122	0.0000049	0.0000207	0.0000062
S-107	06/03/97	07/07/97	55496	0.0000106	0.0000033	0.0000087	0.0000039	0.0000193	0.0000051
S-107	07/07/97	08/07/97	50073	0.0000112	0.0000037	0.0000159	0.0000060	0.0000271	0.0000071
S-107	08/07/97	09/09/97	53315	0.0000088	0.0000033	0.0000119	0.0000048	0.0000207	0.0000058
S-107	09/09/97	10/09/97	48523	0.0000124	0.0000038	0.0000156	0.0000058	0.0000280	0.0000069
S-107	10/09/97	11/05/97	44541	0.0000115	0.0000038	0.0000278	0.0000110	0.0000393	0.0000117
S-107	11/05/97	12/04/97	46954	0.0000077	0.0000033	0.0000108	0.0000057	0.0000185	0.0000066
S-107	12/04/97	01/20/98	76917	0.0000061	0.0000021	0.0000115	0.0000044	0.0000176	0.0000049
S-007	01/06/97	02/05/97	39705	N/A	N/A	N/A	N/A	0.0000304	0.0000091
S-007	02/05/97	03/03/97	33885	N/A	N/A	N/A	N/A	0.0000192	0.0000104
S-007c	03/17/97	04/08/97	28638	N/A	N/A	N/A	N/A	0.0000580	0.0000244
S-007	04/08/97	05/05/97	39805	N/A	N/A	N/A	N/A	0.0000254	0.0000068
S-007	05/05/97	06/03/97	35717	N/A	N/A	N/A	N/A	0.0000220	0.0000070
S-007	06/03/97	07/07/97	40888	N/A	N/A	N/A	N/A	0.0000249	0.0000065
S-007	07/07/97	08/07/97	37198	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40532	N/A	N/A	N/A	N/A	0.0000030	0.0000043
S-007	09/09/97	10/09/97	37727	N/A	N/A	N/A	N/A	0.0000254	0.0000070
S-007	10/09/97	11/05/97	31345	N/A	N/A	N/A	N/A	0.0000233	0.0000076
S-007	11/05/97	12/04/97	32446	N/A	N/A	N/A	N/A	0.0000157	0.0000064
S-007	12/04/97	01/20/98	60313	N/A	N/A	N/A	N/A	0.0000131	0.0000039

a These data have not been corrected for temperature.

b Fine and Coarse samples were cross-contaminated. Total values only are valid.

c Sample for half of the month was lost; results reflect half month only.

d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-038	01/08/97	02/05/97	34463	N/A	N/A	N/A	N/A	0.0000007	0.0000010
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000012	0.0000017
S-038	03/04/97	04/10/97	45864	N/A	N/A	N/A	N/A	0.0000002	0.0000017
S-038	04/10/97	05/06/97	31603	N/A	N/A	N/A	N/A	0.0000007	0.0000018
S-038	05/06/97	06/04/97	35114	N/A	N/A	N/A	N/A	0.0000010	0.0000015
S-038	06/04/97	07/08/97	39908	N/A	N/A	N/A	N/A	0.0000006	0.0000013
S-038	07/08/97	08/12/97	40489	N/A	N/A	N/A	N/A	c	c
S-038	08/12/97	09/10/97	35053	N/A	N/A	N/A	N/A	0.0000011	0.0000017
S-038	09/10/97	10/09/97	34410	N/A	N/A	N/A	N/A	0.0000009	0.0000019
S-038	10/09/97	11/06/97	34352	N/A	N/A	N/A	N/A	0.0000007	0.0000014
S-038	11/06/97	12/05/97	36306	N/A	N/A	N/A	N/A	0.0000005	0.0000013
S-038	12/05/97	01/21/98	58215	N/A	N/A	N/A	N/A	0.0000007	0.0000009

a These data have not been corrected for temperature.

b Sample was lost; no results are available.

c Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-142	01/08/97	02/05/97	45696	0.0000003	0.0000009	0.0000004	0.0000004	0.0000006	0.0000010
S-142	02/05/97	03/05/97	45880	-0.0000001	0.0000008	0.0000005	0.0000007	0.0000004	0.0000010
S-142	03/05/97	04/10/97	58391	-0.0000004	0.0000004	-0.0000001	0.0000005	-0.0000005	0.0000007
S-142	04/10/97	05/06/97	42733	0.0000004	0.0000009	-0.0000002	0.0000003	0.0000002	0.0000009
S-142	05/06/97	06/04/97	47232	0.0000002	0.0000007	0.0000009	0.0000013	0.0000010	0.0000015
S-142	06/04/97	07/08/97	55537	0.0000013	0.0000009	0.0000009	0.0000013	0.0000022	0.0000016
S-142	07/08/97	08/12/97	56665	0.0000002	0.0000006	0.0000004	0.0000008	0.0000006	0.0000010
S-142	08/12/97	09/10/97	47681	0.0000001	0.0000007	0.0000005	0.0000009	0.0000006	0.0000011
S-142	09/10/97	10/09/97	46967	0.0000000	0.0000007	0.0000012	0.0000015	0.0000012	0.0000017
S-142	10/09/97	11/06/97	46029	0.0000005	0.0000009	-0.0000002	0.0000001	0.0000003	0.0000009
S-142	11/06/97	12/05/97	47253	-0.0000002	0.0000006	-0.0000004	0.0000004	-0.0000005	0.0000007
S-142	12/05/97	01/21/98	76591	0.0000005	0.0000005	0.0000004	0.0000006	0.0000008	0.0000008
S-201	01/07/97	02/05/97	46906	0.0000005	0.0000013	0.0000006	0.0000006	0.0000011	0.0000015
S-201	02/05/97	03/04/97	43345	-0.0000008	0.0000006	0.0000006	0.0000007	-0.0000002	0.0000010
S-201	03/04/97	04/08/97	57018	0.0000001	0.0000009	0.0000002	0.0000006	0.0000004	0.0000011
S-201	04/08/97	05/08/97	48856	0.0000004	0.0000008	0.0000012	0.0000015	0.0000016	0.0000017
S-201	05/08/97	06/10/97	51650	0.0000000	0.0000007	0.0000009	0.0000012	0.0000010	0.0000014
S-201	06/10/97	07/09/97	45636	b	b	b	b	b	b
S-201	07/09/97	08/12/97	54810	0.0000005	0.0000008	0.0000010	0.0000012	0.0000016	0.0000015
S-201	08/12/97	09/11/97	48571	0.0000000	0.0000009	0.0000000	0.0000006	0.0000000	0.0000011
S-201	09/11/97	10/09/97	44561	0.0000002	0.0000009	0.0000012	0.0000014	0.0000014	0.0000017
S-201	10/09/97	11/07/97	47035	0.0000007	0.0000009	-0.0000003	0.0000011	0.0000004	0.0000014
S-201	11/07/97	12/05/97	45907	0.0000006	0.0000008	0.0000005	0.0000010	0.0000011	0.0000013
S-201	12/05/97	01/21/98	76448	0.0000003	0.0000005	0.0000004	0.0000005	0.0000007	0.0000008
S-207	01/08/97	02/05/97	45696	-0.0000001	0.0000005	0.0000006	0.0000006	0.0000005	0.0000008
S-207	02/05/97	03/04/97	43916	-0.0000002	0.0000008	0.0000004	0.0000007	0.0000001	0.0000011
S-207	03/04/97	04/10/97	59975	0.0000000	0.0000005	-0.0000001	0.0000004	-0.0000001	0.0000006
S-207	04/10/97	05/06/97	42679	0.0000001	0.0000008	b	b	b	b
S-207	05/06/97	06/04/97	47287	0.0000002	0.0000007	0.0000008	0.0000013	0.0000010	0.0000015
S-207	06/04/97	07/08/97	55537	0.0000003	0.0000007	0.0000006	0.0000010	0.0000009	0.0000012
S-207	07/08/97	08/12/97	56665	0.0000000	0.0000008	0.0000013	0.0000013	0.0000012	0.0000016
S-207	08/12/97	09/10/97	47654	0.0000002	0.0000008	0.0000005	0.0000010	0.0000007	0.0000013
S-207	09/10/97	10/09/97	46960	-0.0000003	0.0000007	0.0000001	0.0000006	-0.0000001	0.0000009
S-207	10/09/97	11/06/97	46036	0.0000002	0.0000008	0.0000002	0.0000008	0.0000004	0.0000011
S-207	11/06/97	12/05/97	47035	-0.0000002	0.0000007	0.0000009	0.0000015	0.0000007	0.0000016
S-207	12/05/97	01/21/98	76584	0.0000003	0.0000005	0.0000001	0.0000005	0.0000004	0.0000007
S-209	01/08/97	02/05/97	45690	0.0000002	0.0000009	0.0000000	0.0000004	0.0000002	0.0000010
S-209	02/05/97	03/05/97	45887	-0.0000009	0.0000004	0.0000006	0.0000007	-0.0000003	0.0000008
S-209	03/05/97	04/10/97	58391	-0.0000003	0.0000005	0.0000001	0.0000005	-0.0000002	0.0000007
S-209	04/10/97	05/06/97	42733	0.0000004	0.0000010	0.0000020	0.0000022	0.0000024	0.0000024
S-209	05/06/97	06/04/97	47232	0.0000004	0.0000010	-0.0000002	0.0000002	0.0000002	0.0000010
S-209	06/04/97	07/08/97	55537	-0.0000002	0.0000006	0.0000010	0.0000013	0.0000009	0.0000014
S-209	07/08/97	08/12/97	56617	0.0000006	0.0000008	-0.0000001	0.0000001	0.0000005	0.0000008
S-209	08/12/97	09/10/97	47681	0.0000005	0.0000009	0.0000002	0.0000008	0.0000008	0.0000012
S-209	09/10/97	10/09/97	46967	0.0000009	0.0000012	0.0000010	0.0000012	0.0000019	0.0000017
S-209	10/09/97	11/06/97	46029	-0.0000002	0.0000007	0.0000011	0.0000015	0.0000009	0.0000017
S-209	11/06/97	12/05/97	47253	0.0000006	0.0000010	0.0000006	0.0000016	0.0000012	0.0000018
S-209	12/05/97	01/21/98	76598	0.0000003	0.0000005	0.0000001	0.0000004	0.0000004	0.0000006

Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-137	01/08/97	02/05/97	45690	-0.0000005	0.0000005	0.0000004	0.0000005	-0.0000001	0.0000007
S-137	02/05/97	03/04/97	43977	-0.0000005	0.0000008	0.0000010	0.0000008	0.0000005	0.0000011
S-137	03/04/97	04/10/97	60192	-0.0000002	0.0000006	0.0000000	0.0000004	-0.0000002	0.0000007
S-137	04/10/97	05/08/97	45683	0.0000008	0.0000010	-0.0000002	0.0000002	0.0000006	0.0000010
S-137	05/08/97	06/03/97	42828	0.0000004	0.0000009	-0.0000002	0.0000003	0.0000002	0.0000009
S-137	06/03/97	07/10/97	59744	0.0000002	0.0000005	0.0000008	0.0000012	0.0000010	0.0000013
S-137	07/10/97	08/12/97	54171	0.0000003	0.0000007	0.0000000	0.0000006	0.0000004	0.0000009
S-137	08/12/97	09/11/97	48958	-0.0000002	0.0000006	0.0000005	0.0000009	0.0000003	0.0000011
S-137	09/11/97	10/09/97	41537	-0.0000002	0.0000009	0.0000010	0.0000015	0.0000008	0.0000017
S-137	10/09/97	11/07/97	51283	-0.0000002	0.0000005	0.0000001	0.0000006	0.0000000	0.0000008
S-137	11/07/97	12/05/97	45927	0.0000008	0.0000009	0.0000007	0.0000013	0.0000016	0.0000016
S-137	12/05/97	01/21/98	76305	0.0000002	0.0000005	0.0000013	0.0000011	0.0000014	0.0000012
S-138	01/08/97	02/05/97	45690	-0.0000002	0.0000007	0.0000008	0.0000006	0.0000006	0.0000010
S-138	02/05/97	03/04/97	44188	-0.0000002	0.0000006	0.0000007	0.0000007	0.0000005	0.0000009
S-138	03/04/97	04/10/97	59968	-0.0000002	0.0000004	0.0000004	0.0000005	0.0000002	0.0000007
S-138	04/10/97	05/06/97	42652	-0.0000001	0.0000008	0.0000015	0.0000019	0.0000014	0.0000020
S-138	05/06/97	06/04/97	47287	0.0000006	0.0000009	0.0000020	0.0000020	0.0000026	0.0000022
S-138	06/04/97	07/08/97	55251	0.0000004	0.0000007	0.0000004	0.0000013	0.0000008	0.0000015
S-138	07/08/97	08/12/97	56624	0.0000008	0.0000009	0.0000007	0.0000010	0.0000015	0.0000014
S-138	08/12/97	09/10/97	47681	0.0000001	0.0000008	0.0000006	0.0000010	0.0000006	0.0000013
S-138	09/10/97	10/09/97	46954	0.0000002	0.0000009	0.0000008	0.0000012	0.0000010	0.0000015
S-138	10/09/97	11/06/97	46029	0.0000011	0.0000010	0.0000010	0.0000016	0.0000021	0.0000019
S-138	11/06/97	12/05/97	45289	-0.0000004	0.0000007	0.0000010	0.0000016	0.0000006	0.0000018
S-138	12/05/97	01/21/98	76367	0.0000001	0.0000005	0.0000005	0.0000007	0.0000006	0.0000008
S-140	01/08/97	02/05/97	45690	-0.0000005	0.0000007	0.0000010	0.0000007	0.0000006	0.0000010
S-140	02/05/97	03/05/97	45880	-0.0000002	0.0000007	0.0000025	0.0000012	0.0000022	0.0000014
S-140	03/05/97	04/10/97	58384	0.0000005	0.0000006	0.0000014	0.0000009	0.0000019	0.0000011
S-140	04/10/97	05/06/97	42733	0.0000015	0.0000012	0.0000021	0.0000036	0.0000036	0.0000038
S-140	05/06/97	06/04/97	47239	0.0000006	0.0000010	-0.0000002	0.0000014	0.0000004	0.0000017
S-140	06/04/97	07/08/97	55544	0.0000009	0.0000009	0.0000008	0.0000015	0.0000016	0.0000017
S-140	07/08/97	08/12/97	56658	0.0000009	0.0000010	0.0000014	0.0000015	0.0000023	0.0000018
S-140	08/12/97	09/10/97	47681	0.0000008	0.0000010	0.0000011	0.0000013	0.0000019	0.0000016
S-140	09/10/97	10/09/97	46960	0.0000006	0.0000010	0.0000011	0.0000014	0.0000017	0.0000017
S-140	10/09/97	11/06/97	46036	0.0000005	0.0000009	0.0000009	0.0000015	0.0000015	0.0000018
S-140	11/06/97	12/05/97	47246	0.0000006	0.0000009	0.0000056	0.0000051	0.0000062	0.0000052
S-140	12/05/97	01/21/98	76605	0.0000008	0.0000007	0.0000007	0.0000013	0.0000014	0.0000015
S-141	01/08/97	02/05/97	45690	-0.0000005	0.0000008	0.0000004	0.0000006	-0.0000001	0.0000010
S-141	02/05/97	03/05/97	45887	-0.0000004	0.0000010	0.0000001	0.0000006	-0.0000002	0.0000012
S-141	03/05/97	04/10/97	58384	-0.0000001	0.0000006	-0.0000001	0.0000005	-0.0000001	0.0000008
S-141	04/10/97	05/06/97	42733	-0.0000001	0.0000009	0.0000023	0.0000030	0.0000021	0.0000031
S-141	05/06/97	06/04/97	47232	0.0000001	0.0000008	0.0000022	0.0000022	0.0000023	0.0000023
S-141	06/04/97	07/08/97	55537	0.0000004	0.0000007	-0.0000002	0.0000002	0.0000002	0.0000008
S-141	07/08/97	08/12/97	56631	0.0000005	0.0000010	0.0000004	0.0000008	0.0000009	0.0000012
S-141	08/12/97	09/10/97	47681	0.0000012	0.0000011	0.0000015	0.0000015	0.0000026	0.0000019
S-141	09/10/97	10/09/97	46960	-0.0000002	0.0000007	0.0000006	0.0000011	0.0000004	0.0000013
S-141	10/09/97	11/06/97	46036	-0.0000004	0.0000008	0.0000018	0.0000019	0.0000014	0.0000020
S-141	11/06/97	12/05/97	47246	0.0000000	0.0000006	0.0000003	0.0000009	0.0000002	0.0000011
S-141	12/05/97	01/21/98	76605	-0.0000001	0.0000004	0.0000005	0.0000007	0.0000005	0.0000008

Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/07/97	02/05/97	47123	-0.0000007	0.0000004	0.0000005	0.0000005	-0.0000001	0.0000006
S-131	02/05/97	03/04/97	43963	-0.0000001	0.0000008	0.0000009	0.0000008	0.0000008	0.0000011
S-131	03/04/97	04/09/97	58921	-0.0000002	0.0000008	0.0000006	0.0000006	0.0000004	0.0000010
S-131	04/09/97	05/08/97	46926	0.0000005	0.0000010	0.0000013	0.0000016	0.0000018	0.0000019
S-131	05/08/97	06/09/97	52492	0.0000004	0.0000008	0.0000013	0.0000015	0.0000018	0.0000017
S-131	06/09/97	07/09/97	48530	0.0000003	0.0000008	0.0000010	0.0000015	0.0000013	0.0000017
S-131	07/09/97	08/12/97	55415	0.0000009	0.0000010	0.0000004	0.0000008	0.0000013	0.0000012
S-131	08/12/97	09/11/97	49210	-0.0000002	0.0000006	0.0000005	0.0000009	0.0000003	0.0000011
S-131	09/11/97	10/09/97	45574	0.0000000	0.0000008	0.0000000	0.0000007	0.0000000	0.0000010
S-131	10/09/97	11/07/97	47110	0.0000003	0.0000007	0.0000005	0.0000010	0.0000008	0.0000012
S-131	11/07/97	12/05/97	45907	0.0000001	0.0000006	0.0000008	0.0000015	0.0000009	0.0000016
S-131	12/05/97	01/21/98	76605	0.0000000	0.0000004	0.0000007	0.0000008	0.0000007	0.0000009
S-132	01/07/97	02/05/97	47117	-0.0000003	0.0000005	0.0000007	0.0000006	0.0000004	0.0000008
S-132	02/05/97	03/04/97	43970	-0.0000009	0.0000012	0.0000011	0.0000009	0.0000001	0.0000015
S-132	03/04/97	04/09/97	55415	-0.0000003	0.0000004	0.0000023	0.0000012	0.0000021	0.0000013
S-132	04/09/97	05/08/97	42951	-0.0000001	0.0000009	0.0000023	0.0000024	0.0000022	0.0000026
S-132	05/08/97	06/09/97	49631	0.0000005	0.0000009	0.0000005	0.0000015	0.0000010	0.0000017
S-132	06/09/97	07/09/97	47728	0.0000015	0.0000012	0.0000022	0.0000020	0.0000036	0.0000023
S-132	07/09/97	08/12/97	55421	0.0000001	0.0000007	0.0000018	0.0000017	0.0000020	0.0000019
S-132	08/12/97	09/11/97	47762	0.0000014	0.0000011	0.0000026	0.0000021	0.0000040	0.0000024
S-132	09/11/97	10/09/97	45567	0.0000009	0.0000011	0.0000004	0.0000009	0.0000013	0.0000014
S-132	10/09/97	11/07/97	47096	0.0000001	0.0000009	0.0000008	0.0000014	0.0000009	0.0000016
S-132	11/07/97	12/05/97	42047	0.0000007	0.0000010	0.0000050	0.0000043	0.0000057	0.0000044
S-132	12/05/97	01/21/98	76598	0.0000003	0.0000005	0.0000010	0.0000011	0.0000013	0.0000012
S-134	01/07/97	02/05/97	47198	-0.0000007	0.0000005	0.0000003	0.0000006	-0.0000004	0.0000008
S-134	02/05/97	03/04/97	43793	-0.0000005	0.0000006	0.0000000	0.0000004	-0.0000005	0.0000007
S-134	03/04/97	04/08/97	56998	-0.0000001	0.0000005	0.0000001	0.0000005	0.0000000	0.0000007
S-134	04/08/97	05/08/97	48870	0.0000003	0.0000007	0.0000002	0.0000012	0.0000004	0.0000014
S-134	05/08/97	06/10/97	52132	0.0000003	0.0000008	0.0000009	0.0000012	0.0000012	0.0000014
S-134	06/10/97	07/09/97	47416	0.0000002	0.0000007	0.0000008	0.0000013	0.0000010	0.0000015
S-134	07/09/97	08/12/97	54436	0.0000002	0.0000008	-0.0000001	0.0000001	0.0000001	0.0000008
S-134	08/12/97	09/11/97	49183	0.0000008	0.0000009	0.0000012	0.0000014	0.0000019	0.0000017
S-134	09/11/97	10/09/97	45628	0.0000000	0.0000007	0.0000004	0.0000009	0.0000005	0.0000012
S-134	10/09/97	11/07/97	47198	0.0000001	0.0000007	-0.0000002	0.0000001	0.0000000	0.0000007
S-134	11/07/97	12/05/97	45866	-0.0000001	0.0000006	-0.0000004	0.0000004	-0.0000005	0.0000007
S-134	12/05/97	01/21/98	76598	-0.0000002	0.0000003	0.0000001	0.0000004	-0.0000002	0.0000005
S-136	01/07/97	02/05/97	46926	-0.0000001	0.0000007	0.0000005	0.0000005	0.0000004	0.0000009
S-136	02/05/97	03/04/97	43977	-0.0000002	0.0000008	0.0000003	0.0000006	0.0000001	0.0000010
S-136	03/04/97	04/10/97	60185	-0.0000002	0.0000006	0.0000001	0.0000004	-0.0000001	0.0000007
S-136	04/10/97	05/08/97	45690	0.0000003	0.0000008	0.0000005	0.0000011	0.0000008	0.0000014
S-136	05/08/97	06/03/97	41259	0.0000000	0.0000009	0.0000001	0.0000009	0.0000002	0.0000012
S-136	06/03/97	07/10/97	59757	0.0000008	0.0000008	0.0000001	0.0000007	0.0000009	0.0000010
S-136	07/10/97	08/12/97	53179	0.0000004	0.0000008	0.0000021	0.0000018	0.0000025	0.0000020
S-136	08/12/97	09/11/97	48972	0.0000004	0.0000009	0.0000006	0.0000011	0.0000010	0.0000014
S-136	09/11/97	10/10/97	47022	0.0000002	0.0000009	0.0000007	0.0000010	0.0000009	0.0000014
S-136	10/10/97	11/07/97	45785	0.0000000	0.0000007	0.0000003	0.0000008	0.0000002	0.0000011
S-136	11/07/97	12/05/97	45921	-0.0000001	0.0000006	0.0000003	0.0000009	0.0000002	0.0000011
S-136	12/05/97	01/21/98	76312	0.0000001	0.0000005	0.0000007	0.0000009	0.0000009	0.0000010

Table 1-8 Uranium-235 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/06/97	02/04/97	46974	-0.0000003	0.0000006	0.0000003	0.0000005	0.0000001	0.0000008
S-107	02/04/97	03/03/97	44419	-0.0000008	0.0000008	-0.0000002	0.0000003	-0.0000010	0.0000008
S-107	03/03/97	04/08/97	58282	-0.0000002	0.0000005	-0.0000001	0.0000005	-0.0000004	0.0000007
S-107	04/08/97	05/05/97	44459	0.0000004	0.0000012	0.0000004	0.0000009	0.0000008	0.0000015
S-107b	05/05/97	06/03/97	47212	-0.0000001	0.0000009	0.0000009	0.0000010	0.0000007	0.0000013
S-107	06/03/97	07/07/97	55496	0.0000007	0.0000008	0.0000010	0.0000010	0.0000017	0.0000012
S-107	07/07/97	08/07/97	50073	0.0000005	0.0000008	0.0000011	0.0000011	0.0000015	0.0000014
S-107	08/07/97	09/09/97	53315	-0.0000003	0.0000007	0.0000007	0.0000008	0.0000003	0.0000011
S-107	09/09/97	10/09/97	48523	0.0000005	0.0000009	0.0000000	0.0000005	0.0000005	0.0000010
S-107	10/09/97	11/05/97	44541	0.0000003	0.0000009	0.0000014	0.0000019	0.0000017	0.0000021
S-107	11/05/97	12/04/97	46954	0.0000002	0.0000009	0.0000005	0.0000010	0.0000008	0.0000014
S-107	12/04/97	01/20/98	76917	0.0000002	0.0000005	0.0000006	0.0000007	0.0000007	0.0000009
S-007	01/06/97	02/05/97	39705	N/A	N/A	N/A	N/A	-0.0000002	0.0000007
S-007	02/05/97	03/03/97	33885	N/A	N/A	N/A	N/A	0.0000000	0.0000012
S-007c	03/17/97	04/08/97	28638	N/A	N/A	N/A	N/A	0.0000003	0.0000034
S-007	04/08/97	05/05/97	39805	N/A	N/A	N/A	N/A	0.0000003	0.0000013
S-007	05/05/97	06/03/97	35717	N/A	N/A	N/A	N/A	-0.0000001	0.0000013
S-007	06/03/97	07/07/97	40888	N/A	N/A	N/A	N/A	0.0000008	0.0000013
S-007	07/07/97	08/07/97	37198	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40532	N/A	N/A	N/A	N/A	-0.0000006	0.0000008
S-007	09/09/97	10/09/97	37727	N/A	N/A	N/A	N/A	0.0000012	0.0000015
S-007	10/09/97	11/05/97	31345	N/A	N/A	N/A	N/A	0.0000010	0.0000017
S-007	11/05/97	12/04/97	32446	N/A	N/A	N/A	N/A	0.0000002	0.0000014
S-007	12/04/97	01/20/98	60313	N/A	N/A	N/A	N/A	0.0000003	0.0000008

a These data have not been corrected for temperature

b Fine and Coarse samples were cross-contaminated. Total values only are valid.

c Sample for half of the month was lost; results reflect half month only.

d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-038	01/08/97	02/05/97	34463	N/A	N/A	N/A	N/A	0.0000158	0.0000086
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000170	0.0000106
S-038	03/04/97	04/10/97	45864	N/A	N/A	N/A	N/A	0.0000178	0.0000101
S-038	04/10/97	05/06/97	31603	N/A	N/A	N/A	N/A	0.0000190	0.0000074
S-038	05/06/97	06/04/97	35114	N/A	N/A	N/A	N/A	0.0000267	0.0000069
S-038	06/04/97	07/08/97	39908	N/A	N/A	N/A	N/A	0.0000225	0.0000061
S-038	07/08/97	08/12/97	40489	N/A	N/A	N/A	N/A	c	c
S-038	08/12/97	09/10/97	35053	N/A	N/A	N/A	N/A	0.0000149	0.0000069
S-038	09/10/97	10/09/97	34410	N/A	N/A	N/A	N/A	0.0000129	0.0000072
S-038	10/09/97	11/06/97	34352	N/A	N/A	N/A	N/A	0.0000182	0.0000064
S-038	11/06/97	12/05/97	36306	N/A	N/A	N/A	N/A	0.0000094	0.0000054
S-038	12/05/97	01/21/98	58215	N/A	N/A	N/A	N/A	0.0000135	0.0000042

a These data have not been corrected for temperature.

b Sample was lost; no results are available.

c Sample for the first half of the month was lost, no analysis was performed.

N/A = Not Applicable

Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-142	01/08/97	02/05/97	45696	-0.0000066	0.0000058	0.0000066	0.0000019	0.0000000	0.0000061
S-142	02/05/97	03/05/97	45880	-0.0000050	0.0000054	0.0000085	0.0000027	0.0000036	0.0000061
S-142	03/05/97	04/10/97	58391	-0.0000009	0.0000040	0.0000099	0.0000025	0.0000091	0.0000048
S-142	04/10/97	05/06/97	42733	0.0000065	0.0000038	0.0000262	0.0000105	0.0000327	0.0000112
S-142	05/06/97	06/04/97	47232	0.0000027	0.0000031	0.0000140	0.0000064	0.0000167	0.0000071
S-142	06/04/97	07/08/97	55537	0.0000109	0.0000034	0.0000122	0.0000059	0.0000231	0.0000068
S-142	07/08/97	08/12/97	56665	0.0000092	0.0000032	0.0000091	0.0000041	0.0000183	0.0000052
S-142	08/12/97	09/10/97	47681	0.0000094	0.0000036	0.0000082	0.0000042	0.0000176	0.0000055
S-142	09/10/97	10/09/97	46967	0.0000096	0.0000038	0.0000135	0.0000057	0.0000231	0.0000069
S-142	10/09/97	11/06/97	46029	0.0000121	0.0000039	0.0000125	0.0000057	0.0000246	0.0000068
S-142	11/06/97	12/05/97	47253	0.0000101	0.0000035	0.0000114	0.0000059	0.0000215	0.0000069
S-142	12/05/97	01/21/98	76591	0.0000054	0.0000021	0.0000045	0.0000024	0.0000100	0.0000032
S-201	01/07/97	02/05/97	46906	0.0000017	0.0000073	0.0000082	0.0000025	0.0000099	0.0000077
S-201	02/05/97	03/04/97	43345	-0.0000018	0.0000061	0.0000085	0.0000027	0.0000068	0.0000067
S-201	03/04/97	04/08/97	57018	0.0000050	0.0000061	0.0000135	0.0000028	0.0000185	0.0000067
S-201	04/08/97	05/08/97	48856	0.0000098	0.0000038	0.0000161	0.0000068	0.0000259	0.0000078
S-201	05/08/97	06/10/97	51650	0.0000077	0.0000032	0.0000103	0.0000050	0.0000179	0.0000059
S-201	06/10/97	07/09/97	45636	b	b	b	b	b	b
S-201	07/09/97	08/12/97	54810	0.0000139	0.0000038	0.0000162	0.0000060	0.0000300	0.0000071
S-201	08/12/97	09/11/97	48571	0.0000113	0.0000039	0.0000109	0.0000047	0.0000222	0.0000061
S-201	09/11/97	10/09/97	44561	0.0000175	0.0000049	0.0000123	0.0000054	0.0000298	0.0000072
S-201	10/09/97	11/07/97	47035	0.0000119	0.0000038	0.0000144	0.0000065	0.0000262	0.0000075
S-201	11/07/97	12/05/97	45907	0.0000063	0.0000032	0.0000018	0.0000025	0.0000081	0.0000041
S-201	12/05/97	01/21/98	76448	0.0000059	0.0000021	0.0000062	0.0000027	0.0000122	0.0000034
S-207	01/08/97	02/05/97	45696	-0.0000008	0.0000056	0.0000145	0.0000031	0.0000137	0.0000064
S-207	02/05/97	03/04/97	43916	-0.0000052	0.0000056	0.0000194	0.0000043	0.0000142	0.0000071
S-207	03/04/97	04/10/97	59975	0.0000025	0.0000043	0.0000140	0.0000030	0.0000165	0.0000052
S-207	04/10/97	05/06/97	42679	0.0000115	0.0000043	b	b	b	b
S-207	05/06/97	06/04/97	47287	0.0000076	0.0000034	0.0000118	0.0000059	0.0000194	0.0000068
S-207	06/04/97	07/08/97	55537	0.0000107	0.0000032	0.0000185	0.0000068	0.0000292	0.0000075
S-207	07/08/97	08/12/97	56665	0.0000136	0.0000038	0.0000183	0.0000062	0.0000318	0.0000073
S-207	08/12/97	09/10/97	47654	0.0000056	0.0000032	0.0000158	0.0000062	0.0000213	0.0000070
S-207	09/10/97	10/09/97	46960	0.0000114	0.0000042	0.0000088	0.0000043	0.0000202	0.0000060
S-207	10/09/97	11/06/97	46036	0.0000132	0.0000039	0.0000157	0.0000065	0.0000289	0.0000076
S-207	11/06/97	12/05/97	47035	0.0000082	0.0000034	0.0000178	0.0000072	0.0000260	0.0000079
S-207	12/05/97	01/21/98	76584	0.0000092	0.0000025	0.0000108	0.0000039	0.0000200	0.0000046
S-209	01/08/97	02/05/97	45690	-0.0000040	0.0000060	0.0000123	0.0000033	0.0000082	0.0000068
S-209	02/05/97	03/05/97	45887	-0.0000028	0.0000055	0.0000165	0.0000039	0.0000138	0.0000068
S-209	03/05/97	04/10/97	58391	0.0000008	0.0000042	0.0000153	0.0000030	0.0000161	0.0000052
S-209	04/10/97	05/06/97	42733	0.0000084	0.0000040	0.0000135	0.0000065	0.0000219	0.0000076
S-209	05/06/97	06/04/97	47232	0.0000084	0.0000037	0.0000096	0.0000049	0.0000180	0.0000062
S-209	06/04/97	07/08/97	55537	0.0000109	0.0000033	0.0000134	0.0000058	0.0000242	0.0000067
S-209	07/08/97	08/12/97	56617	0.0000122	0.0000038	0.0000093	0.0000041	0.0000215	0.0000056
S-209	08/12/97	09/10/97	47681	0.0000110	0.0000039	0.0000092	0.0000048	0.0000202	0.0000062
S-209	09/10/97	10/09/97	46967	0.0000105	0.0000043	0.0000113	0.0000048	0.0000218	0.0000065
S-209	10/09/97	11/06/97	46029	0.0000096	0.0000035	0.0000164	0.0000069	0.0000260	0.0000078
S-209	11/06/97	12/05/97	47253	0.0000121	0.0000040	0.0000125	0.0000058	0.0000246	0.0000070
S-209	12/05/97	01/21/98	76598	0.0000076	0.0000023	0.0000099	0.0000038	0.0000175	0.0000044

Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-137	01/08/97	02/05/97	45690	-0.0000021	0.0000056	0.0000138	0.0000034	0.0000117	0.0000066
S-137	02/05/97	03/04/97	43977	-0.0000033	0.0000061	0.0000141	0.0000033	0.0000108	0.0000069
S-137	03/04/97	04/10/97	60192	-0.0000007	0.0000043	0.0000129	0.0000027	0.0000122	0.0000051
S-137	04/10/97	05/08/97	45683	0.0000085	0.0000039	0.0000283	0.0000125	0.0000368	0.0000131
S-137	05/08/97	06/03/97	42828	0.0000067	0.0000036	0.0000193	0.0000080	0.0000260	0.0000088
S-137	06/03/97	07/10/97	59744	0.0000108	0.0000030	0.0000092	0.0000045	0.0000200	0.0000054
S-137	07/10/97	08/12/97	54171	0.0000081	0.0000032	0.0000073	0.0000037	0.0000154	0.0000048
S-137	08/12/97	09/11/97	48958	0.0000116	0.0000041	0.0000103	0.0000047	0.0000219	0.0000062
S-137	09/11/97	10/09/97	41537	0.0000077	0.0000040	0.0000119	0.0000057	0.0000196	0.0000069
S-137	10/09/97	11/07/97	51283	0.0000111	0.0000035	0.0000115	0.0000048	0.0000226	0.0000059
S-137	11/07/97	12/05/97	45927	0.0000067	0.0000031	0.0000130	0.0000063	0.0000197	0.0000071
S-137	12/05/97	01/21/98	76305	0.0000084	0.0000024	0.0000103	0.0000039	0.0000187	0.0000046
S-138	01/08/97	02/05/97	45690	-0.0000008	0.0000062	0.0000070	0.0000022	0.0000062	0.0000066
S-138	02/05/97	03/04/97	44188	-0.0000055	0.0000054	0.0000088	0.0000027	0.0000034	0.0000061
S-138	03/04/97	04/10/97	59968	-0.0000007	0.0000040	0.0000103	0.0000024	0.0000096	0.0000047
S-138	04/10/97	05/06/97	42652	0.0000060	0.0000038	0.0000152	0.0000073	0.0000212	0.0000082
S-138	05/06/97	06/04/97	47287	0.0000108	0.0000037	0.0000065	0.0000045	0.0000173	0.0000059
S-138	06/04/97	07/08/97	55251	0.0000094	0.0000032	0.0000137	0.0000060	0.0000231	0.0000068
S-138	07/08/97	08/12/97	56624	0.0000118	0.0000037	0.0000106	0.0000045	0.0000224	0.0000058
S-138	08/12/97	09/10/97	47681	0.0000081	0.0000036	0.0000130	0.0000056	0.0000212	0.0000067
S-138	09/10/97	10/09/97	46954	0.0000085	0.0000037	0.0000108	0.0000050	0.0000193	0.0000062
S-138	10/09/97	11/06/97	46029	0.0000102	0.0000036	0.0000089	0.0000047	0.0000190	0.0000059
S-138	11/06/97	12/05/97	45289	0.0000060	0.0000032	0.0000069	0.0000046	0.0000128	0.0000056
S-138	12/05/97	01/21/98	76367	0.0000065	0.0000023	0.0000056	0.0000027	0.0000122	0.0000035
S-140	01/08/97	02/05/97	45690	0.0000021	0.0000071	0.0000303	0.0000050	0.0000323	0.0000087
S-140	02/05/97	03/05/97	45880	0.0000109	0.0000067	0.0000370	0.0000067	0.0000479	0.0000095
S-140	03/05/97	04/10/97	58384	0.0000080	0.0000047	0.0000369	0.0000064	0.0000450	0.0000080
S-140	04/10/97	05/06/97	42733	0.0000142	0.0000045	0.0000488	0.0000185	0.0000630	0.0000191
S-140	05/06/97	06/04/97	47239	0.0000062	0.0000037	0.0000266	0.0000104	0.0000328	0.0000110
S-140	06/04/97	07/08/97	55544	0.0000194	0.0000044	0.0000271	0.0000095	0.0000465	0.0000104
S-140	07/08/97	08/12/97	56658	0.0000199	0.0000044	0.0000239	0.0000080	0.0000438	0.0000092
S-140	08/12/97	09/10/97	47681	0.0000112	0.0000040	0.0000242	0.0000081	0.0000354	0.0000090
S-140	09/10/97	10/09/97	46960	0.0000174	0.0000047	0.0000201	0.0000072	0.0000376	0.0000086
S-140	10/09/97	11/06/97	46036	0.0000177	0.0000043	0.0000284	0.0000100	0.0000461	0.0000109
S-140	11/06/97	12/05/97	47246	0.0000239	0.0000051	0.0000461	0.0000177	0.0000700	0.0000184
S-140	12/05/97	01/21/98	76605	0.0000166	0.0000034	0.0000238	0.0000086	0.0000404	0.0000092
S-141	01/08/97	02/05/97	45690	-0.0000011	0.0000069	0.0000091	0.0000026	0.0000079	0.0000074
S-141	02/05/97	03/05/97	45887	-0.0000025	0.0000065	0.0000106	0.0000029	0.0000082	0.0000071
S-141	03/05/97	04/10/97	58384	0.0000028	0.0000047	0.0000113	0.0000026	0.0000141	0.0000053
S-141	04/10/97	05/06/97	42733	0.0000066	0.0000038	0.0000211	0.0000110	0.0000276	0.0000116
S-141	05/06/97	06/04/97	47232	0.0000028	0.0000031	0.0000134	0.0000066	0.0000162	0.0000073
S-141	06/04/97	07/08/97	55537	0.0000094	0.0000031	0.0000040	0.0000083	0.0000134	0.0000088
S-141	07/08/97	08/12/97	56631	0.0000120	0.0000037	0.0000067	0.0000035	0.0000186	0.0000050
S-141	08/12/97	09/10/97	47681	0.0000116	0.0000039	0.0000105	0.0000048	0.0000221	0.0000062
S-141	09/10/97	10/09/97	46960	0.0000110	0.0000039	0.0000118	0.0000049	0.0000228	0.0000063
S-141	10/09/97	11/06/97	46036	0.0000083	0.0000037	0.0000123	0.0000057	0.0000206	0.0000068
S-141	11/06/97	12/05/97	47246	0.0000074	0.0000032	0.0000133	0.0000062	0.0000207	0.0000070
S-141	12/05/97	01/21/98	76605	0.0000042	0.0000018	0.0000076	0.0000032	0.0000118	0.0000037

Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/07/97	02/05/97	47123	-0.0000041	0.0000053	0.0000158	0.0000033	0.0000117	0.0000062
S-131	02/05/97	03/04/97	43963	0.0000021	0.0000064	0.0000269	0.0000049	0.0000290	0.0000080
S-131	03/04/97	04/09/97	58921	0.0000057	0.0000056	0.0000240	0.0000042	0.0000297	0.0000070
S-131	04/09/97	05/08/97	46926	0.0000067	0.0000035	0.0000178	0.0000075	0.0000245	0.0000083
S-131	05/08/97	06/09/97	52492	0.0000098	0.0000035	0.0000147	0.0000063	0.0000244	0.0000072
S-131	06/09/97	07/09/97	48530	0.0000146	0.0000041	0.0000249	0.0000096	0.0000394	0.0000104
S-131	07/09/97	08/12/97	55415	0.0000148	0.0000041	0.0000169	0.0000060	0.0000317	0.0000073
S-131	08/12/97	09/11/97	49210	0.0000084	0.0000036	0.0000155	0.0000059	0.0000238	0.0000069
S-131	09/11/97	10/09/97	45574	0.0000076	0.0000038	0.0000139	0.0000056	0.0000215	0.0000068
S-131	10/09/97	11/07/97	47110	0.0000105	0.0000036	0.0000187	0.0000070	0.0000292	0.0000079
S-131	11/07/97	12/05/97	45907	0.0000105	0.0000036	0.0000291	0.0000109	0.0000396	0.0000115
S-131	12/05/97	01/21/98	76605	0.0000077	0.0000023	0.0000129	0.0000045	0.0000206	0.0000051
S-132	01/07/97	02/05/97	47117	0.0000015	0.0000057	0.0000221	0.0000043	0.0000236	0.0000071
S-132	02/05/97	03/04/97	43970	-0.0000008	0.0000079	0.0000228	0.0000047	0.0000220	0.0000092
S-132	03/04/97	04/09/97	55415	0.0000059	0.0000047	0.0000359	0.0000068	0.0000418	0.0000083
S-132	04/09/97	05/08/97	42951	0.0000148	0.0000047	0.0000336	0.0000124	0.0000484	0.0000132
S-132	05/08/97	06/09/97	49631	0.0000134	0.0000040	0.0000190	0.0000076	0.0000325	0.0000086
S-132	06/09/97	07/09/97	47728	0.0000220	0.0000050	0.0000323	0.0000108	0.0000543	0.0000119
S-132	07/09/97	08/12/97	55421	0.0000168	0.0000041	0.0000267	0.0000088	0.0000435	0.0000097
S-132	08/12/97	09/11/97	47762	0.0000160	0.0000044	0.0000314	0.0000100	0.0000474	0.0000109
S-132	09/11/97	10/09/97	45567	0.0000157	0.0000047	0.0000250	0.0000083	0.0000407	0.0000096
S-132	10/09/97	11/07/97	47096	0.0000116	0.0000037	0.0000260	0.0000090	0.0000376	0.0000097
S-132	11/07/97	12/05/97	42047	0.0000159	0.0000044	0.0000376	0.0000140	0.0000535	0.0000147
S-132	12/05/97	01/21/98	76598	0.0000100	0.0000026	0.0000167	0.0000056	0.0000268	0.0000062
S-134	01/07/97	02/05/97	47198	-0.0000053	0.0000055	0.0000059	0.0000023	0.0000005	0.0000060
S-134	02/05/97	03/04/97	43793	-0.0000037	0.0000058	0.0000065	0.0000021	0.0000028	0.0000061
S-134	03/04/97	04/08/97	56998	-0.0000003	0.0000044	0.0000084	0.0000023	0.0000081	0.0000050
S-134	04/08/97	05/08/97	48870	0.0000055	0.0000034	0.0000086	0.0000049	0.0000141	0.0000059
S-134	05/08/97	06/10/97	52132	0.0000043	0.0000029	0.0000105	0.0000050	0.0000149	0.0000058
S-134	06/10/97	07/09/97	47416	0.0000113	0.0000037	0.0000114	0.0000058	0.0000227	0.0000069
S-134	07/09/97	08/12/97	54436	0.0000082	0.0000034	0.0000107	0.0000048	0.0000189	0.0000058
S-134	08/12/97	09/11/97	49183	0.0000111	0.0000037	0.0000102	0.0000047	0.0000212	0.0000060
S-134	09/11/97	10/09/97	45628	0.0000060	0.0000035	0.0000055	0.0000035	0.0000115	0.0000049
S-134	10/09/97	11/07/97	47198	0.0000051	0.0000030	0.0000089	0.0000045	0.0000140	0.0000053
S-134	11/07/97	12/05/97	45866	0.0000029	0.0000027	0.0000082	0.0000050	0.0000111	0.0000057
S-134	12/05/97	01/21/98	76598	0.0000042	0.0000019	0.0000051	0.0000027	0.0000093	0.0000033
S-136	01/07/97	02/05/97	46926	-0.0000050	0.0000056	0.0000059	0.0000020	0.0000010	0.0000059
S-136	02/05/97	03/04/97	43977	-0.0000041	0.0000060	0.0000064	0.0000022	0.0000023	0.0000064
S-136	03/04/97	04/10/97	60185	-0.0000013	0.0000043	0.0000065	0.0000019	0.0000053	0.0000047
S-136	04/10/97	05/08/97	45690	0.0000011	0.0000032	0.0000079	0.0000048	0.0000090	0.0000058
S-136	05/08/97	06/03/97	41259	0.0000054	0.0000037	0.0000147	0.0000070	0.0000201	0.0000079
S-136	06/03/97	07/10/97	59757	0.0000117	0.0000033	0.0000107	0.0000052	0.0000224	0.0000061
S-136	07/10/97	08/12/97	53179	0.0000104	0.0000035	0.0000102	0.0000047	0.0000206	0.0000058
S-136	08/12/97	09/11/97	48972	0.0000058	0.0000033	0.0000140	0.0000059	0.0000198	0.0000068
S-136	09/11/97	10/10/97	47022	0.0000093	0.0000038	0.0000076	0.0000038	0.0000170	0.0000054
S-136	10/10/97	11/07/97	45785	0.0000093	0.0000035	0.0000146	0.0000064	0.0000239	0.0000073
S-136	11/07/97	12/05/97	45921	0.0000057	0.0000030	0.0000079	0.0000049	0.0000136	0.0000057
S-136	12/05/97	01/21/98	76312	0.0000052	0.0000021	0.0000071	0.0000032	0.0000124	0.0000038

Table 1-6 Uranium-233, -234 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/06/97	02/04/97	46974	-0.0000021	0.0000055	0.0000146	0.0000035	0.0000125	0.0000066
S-107	02/04/97	03/03/97	44419	-0.0000015	0.0000061	0.0000123	0.0000032	0.0000108	0.0000069
S-107	03/03/97	04/08/97	58282	0.0000030	0.0000045	0.0000180	0.0000039	0.0000211	0.0000059
S-107	04/08/97	05/05/97	44459	0.0000152	0.0000054	0.0000136	0.0000051	0.0000287	0.0000074
S-107b	05/05/97	06/03/97	47212	0.0000114	0.0000041	0.0000092	0.0000038	0.0000206	0.0000056
S-107	06/03/97	07/07/97	55496	0.0000098	0.0000033	0.0000123	0.0000044	0.0000221	0.0000055
S-107	07/07/97	08/07/97	50073	0.0000075	0.0000033	0.0000102	0.0000042	0.0000177	0.0000054
S-107	08/07/97	09/09/97	53315	0.0000086	0.0000034	0.0000081	0.0000035	0.0000168	0.0000049
S-107	09/09/97	10/09/97	48523	0.0000124	0.0000039	0.0000133	0.0000048	0.0000257	0.0000062
S-107	10/09/97	11/05/97	44541	0.0000090	0.0000036	0.0000188	0.0000081	0.0000278	0.0000088
S-107	11/05/97	12/04/97	46954	0.0000069	0.0000032	0.0000098	0.0000049	0.0000166	0.0000058
S-107	12/04/97	01/20/98	76917	0.0000088	0.0000025	0.0000106	0.0000040	0.0000194	0.0000047
S-007	01/06/97	02/05/97	39705	N/A	N/A	N/A	N/A	0.0000278	0.0000088
S-007	02/05/97	03/03/97	33885	N/A	N/A	N/A	N/A	0.0000179	0.0000103
S-007c	03/17/97	04/08/97	28638	N/A	N/A	N/A	N/A	0.0000431	0.0000212
S-007	04/08/97	05/05/97	39805	N/A	N/A	N/A	N/A	0.0000199	0.0000065
S-007	05/05/97	06/03/97	35717	N/A	N/A	N/A	N/A	0.0000193	0.0000070
S-007	06/03/97	07/07/97	40888	N/A	N/A	N/A	N/A	0.0000187	0.0000062
S-007	07/07/97	08/07/97	37198	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40532	N/A	N/A	N/A	N/A	0.0000043	0.0000047
S-007	09/09/97	10/09/97	37727	N/A	N/A	N/A	N/A	0.0000237	0.0000070
S-007	10/09/97	11/05/97	31345	N/A	N/A	N/A	N/A	0.0000197	0.0000072
S-007	11/05/97	12/04/97	32446	N/A	N/A	N/A	N/A	0.0000146	0.0000063
S-007	12/04/97	01/20/98	60313	N/A	N/A	N/A	N/A	0.0000127	0.0000040

a These data have not been corrected for temperature.

b Fine and Coarse samples were cross-contaminated. Total values only are valid.

c Sample for half of the month was lost; results reflect half month only.

d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

Table I-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-038	01/08/97	02/05/97	34463	N/A	N/A	N/A	N/A	0.0000004	0.0000005
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000004	0.0000006
S-038	03/04/97	04/10/97	45864	N/A	N/A	N/A	N/A	0.0000003	0.0000004
S-038	04/10/97	05/06/97	31603	N/A	N/A	N/A	N/A	0.0000010	0.0000012
S-038	05/06/97	06/04/97	35114	N/A	N/A	N/A	N/A	0.0000018	0.0000017
S-038	06/04/97	07/08/97	39908	N/A	N/A	N/A	N/A	0.0000009	0.0000010
S-038	07/08/97	08/12/97	40489	N/A	N/A	N/A	N/A	d	d
S-038	08/12/97	09/10/97	35053	N/A	N/A	N/A	N/A	-0.0000006	0.0000020
S-038	09/10/97	10/09/97	34410	N/A	N/A	N/A	N/A	0.0000027	0.0000021
S-038	10/09/97	11/06/97	34352	N/A	N/A	N/A	N/A	-0.0000003	0.0000011
S-038	11/06/97	12/05/97	36306	N/A	N/A	N/A	N/A	0.0000004	0.0000012
S-038	12/05/97	01/21/98	58215	N/A	N/A	N/A	N/A	0.0000002	0.0000007

- a These data have not been corrected for temperature.
- b Laboratory analysis failed; no results are available.
- c Sample was lost; no results are available.
- d Sample for the first half of the month was lost, no analysis was performed.

N/A = Not Applicable

Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-142	01/08/97	02/05/97	45696	0.0000002	0.0000003	b	b	b	b
S-142	02/05/97	03/05/97	45880	-0.0000003	0.0000005	-0.0000002	0.0000004	-0.0000005	0.0000007
S-142	03/05/97	04/10/97	58391	-0.0000001	0.0000003	-0.0000002	0.0000002	-0.0000002	0.0000004
S-142	04/10/97	05/06/97	42733	0.0000007	0.0000009	-0.0000001	0.0000001	0.0000006	0.0000009
S-142	05/06/97	06/04/97	47232	0.0000003	0.0000005	-0.0000001	0.0000014	0.0000002	0.0000015
S-142	06/04/97	07/08/97	55537	0.0000009	0.0000007	0.0000003	0.0000006	0.0000012	0.0000009
S-142	07/08/97	08/12/97	56665	0.0000007	0.0000007	0.0000000	0.0000001	0.0000007	0.0000007
S-142	08/12/97	09/10/97	47681	0.0000018	0.0000013	0.0000005	0.0000008	0.0000023	0.0000015
S-142	09/10/97	10/09/97	46967	0.0000002	0.0000015	0.0000003	0.0000007	0.0000006	0.0000016
S-142	10/09/97	11/06/97	46029	0.0000006	0.0000010	-0.0000002	0.0000003	0.0000005	0.0000010
S-142	11/06/97	12/05/97	47253	-0.0000001	0.0000006	0.0000000	0.0000001	-0.0000001	0.0000006
S-142	12/05/97	01/21/98	76591	-0.0000006	0.0000004	0.0000002	0.0000004	-0.0000004	0.0000006
S-201	01/07/97	02/05/97	46906	0.0000004	0.0000005	0.0000006	0.0000009	0.0000010	0.0000010
S-201	02/05/97	03/04/97	43345	0.0000002	0.0000006	-0.0000010	0.0000013	-0.0000008	0.0000014
S-201	03/04/97	04/08/97	57018	0.0000005	0.0000005	-0.0000001	0.0000012	0.0000004	0.0000013
S-201	04/08/97	05/08/97	48856	0.0000007	0.0000007	0.0000001	0.0000009	0.0000009	0.0000012
S-201	05/08/97	06/10/97	51650	0.0000000	0.0000005	0.0000001	0.0000004	0.0000001	0.0000006
S-201	06/10/97	07/09/97	45636	c	c	c	c	c	c
S-201	07/09/97	08/12/97	54810	0.0000018	0.0000009	0.0000004	0.0000007	0.0000021	0.0000011
S-201	08/12/97	09/11/97	48571	0.0000000	0.0000009	-0.0000001	0.0000002	-0.0000001	0.0000009
S-201	09/11/97	10/09/97	44561	0.0000010	0.0000011	0.0000006	0.0000009	0.0000016	0.0000014
S-201	10/09/97	11/07/97	47035	0.0000016	0.0000012	0.0000005	0.0000011	0.0000021	0.0000016
S-201	11/07/97	12/05/97	45907	0.0000008	0.0000010	0.0000000	0.0000001	0.0000008	0.0000010
S-201	12/05/97	01/21/98	76448	0.0000007	0.0000007	0.0000004	0.0000005	0.0000011	0.0000009
S-207	01/08/97	02/05/97	45696	0.0000005	0.0000009	0.0000007	0.0000015	0.0000012	0.0000017
S-207	02/05/97	03/04/97	43916	0.0000001	0.0000004	-0.0000004	0.0000006	-0.0000004	0.0000008
S-207	03/04/97	04/10/97	59975	b	b	-0.0000004	0.0000007	b	b
S-207	04/10/97	05/06/97	42679	0.0000007	0.0000009	c	c	c	c
S-207	05/06/97	06/04/97	47287	0.0000004	0.0000005	0.0000014	0.0000013	0.0000018	0.0000014
S-207	06/04/97	07/08/97	55537	0.0000010	0.0000008	0.0000003	0.0000006	0.0000013	0.0000010
S-207	07/08/97	08/12/97	56665	0.0000014	0.0000009	0.0000002	0.0000007	0.0000015	0.0000011
S-207	08/12/97	09/10/97	47654	0.0000020	0.0000016	-0.0000002	0.0000003	0.0000018	0.0000017
S-207	09/10/97	10/09/97	46960	0.0000005	0.0000012	0.0000009	0.0000013	0.0000015	0.0000018
S-207	10/09/97	11/06/97	46036	0.0000008	0.0000010	0.0000004	0.0000008	0.0000012	0.0000013
S-207	11/06/97	12/05/97	47035	-0.0000002	0.0000008	0.0000013	0.0000015	0.0000011	0.0000017
S-207	12/05/97	01/21/98	76584	0.0000003	0.0000006	-0.0000002	0.0000004	0.0000001	0.0000007
S-209	01/08/97	02/05/97	45690	0.0000001	0.0000004	b	b	b	b
S-209	02/05/97	03/05/97	45887	0.0000000	0.0000005	0.0000002	0.0000006	0.0000002	0.0000008
S-209	03/05/97	04/10/97	58391	-0.0000002	0.0000004	-0.0000001	0.0000006	-0.0000003	0.0000007
S-209	04/10/97	05/06/97	42733	0.0000006	0.0000006	-0.0000004	0.0000009	0.0000002	0.0000011
S-209	05/06/97	06/04/97	47232	-0.0000001	0.0000005	-0.0000001	0.0000012	-0.0000002	0.0000013
S-209	06/04/97	07/08/97	55537	0.0000002	0.0000006	-0.0000003	0.0000008	-0.0000001	0.0000010
S-209	07/08/97	08/12/97	56617	0.0000005	0.0000009	0.0000003	0.0000005	0.0000007	0.0000010
S-209	08/12/97	09/10/97	47681	0.0000006	0.0000013	0.0000003	0.0000008	0.0000009	0.0000016
S-209	09/10/97	10/09/97	46967	0.0000018	0.0000015	0.0000003	0.0000006	0.0000021	0.0000016
S-209	10/09/97	11/06/97	46029	0.0000004	0.0000011	0.0000000	0.0000001	0.0000004	0.0000011
S-209	11/06/97	12/05/97	47253	0.0000002	0.0000011	0.0000003	0.0000010	0.0000005	0.0000015
S-209	12/05/97	01/21/98	76598	0.0000001	0.0000005	0.0000002	0.0000004	0.0000003	0.0000006

Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-137	01/08/97	02/05/97	45690	0.0000003	0.0000005	0.0000021	0.0000020	0.0000024	0.0000021
S-137	02/05/97	03/04/97	43977	-0.0000004	0.0000004	0.0000002	0.0000007	-0.0000001	0.0000008
S-137	03/04/97	04/10/97	60192	0.0000005	0.0000005	0.0000005	0.0000010	0.0000010	0.0000011
S-137	04/10/97	05/08/97	45683	-0.0000001	0.0000002	-0.0000001	0.0000011	-0.0000002	0.0000011
S-137	05/08/97	06/03/97	42828	0.0000004	0.0000006	0.0000002	0.0000014	0.0000006	0.0000015
S-137	06/03/97	07/10/97	59744	0.0000008	0.0000006	0.0000003	0.0000006	0.0000011	0.0000008
S-137	07/10/97	08/12/97	54171	0.0000007	0.0000010	-0.0000001	0.0000002	0.0000006	0.0000010
S-137	08/12/97	09/11/97	48958	0.0000017	0.0000015	0.0000006	0.0000010	0.0000023	0.0000018
S-137	09/11/97	10/09/97	41537	0.0000013	0.0000012	0.0000001	0.0000009	0.0000013	0.0000015
S-137	10/09/97	11/07/97	51283	0.0000010	0.0000010	-0.0000006	0.0000007	0.0000004	0.0000012
S-137	11/07/97	12/05/97	45927	-0.0000009	0.0000008	0.0000000	0.0000001	-0.0000009	0.0000008
S-137	12/05/97	01/21/98	76305	0.0000005	0.0000006	0.0000001	0.0000005	0.0000006	0.0000008
S-138	01/08/97	02/05/97	45690	0.0000002	0.0000005	-0.0000004	0.0000005	-0.0000002	0.0000007
S-138	02/05/97	03/04/97	44188	0.0000001	0.0000006	0.0000013	0.0000012	0.0000014	0.0000014
S-138	03/04/97	04/10/97	59968	0.0000000	0.0000004	0.0000001	0.0000009	0.0000001	0.0000010
S-138	04/10/97	05/06/97	42652	0.0000007	0.0000008	-0.0000010	0.0000014	-0.0000004	0.0000016
S-138	05/06/97	06/04/97	47287	0.0000004	0.0000007	0.0000005	0.0000012	0.0000010	0.0000014
S-138	06/04/97	07/08/97	55251	0.0000008	0.0000007	-0.0000001	0.0000001	0.0000007	0.0000007
S-138	07/08/97	08/12/97	56624	0.0000011	0.0000010	0.0000005	0.0000008	0.0000016	0.0000013
S-138	08/12/97	09/10/97	47681	0.0000002	0.0000007	0.0000031	0.0000020	0.0000032	0.0000022
S-138	09/10/97	10/09/97	46954	0.0000021	0.0000014	0.0000150	0.0000053	0.0000171	0.0000055
S-138	10/09/97	11/06/97	46029	0.0000009	0.0000013	0.0000000	0.0000001	0.0000009	0.0000013
S-138	11/06/97	12/05/97	45289	0.0000008	0.0000010	0.0000000	0.0000001	0.0000008	0.0000010
S-138	12/05/97	01/21/98	76367	-0.0000001	0.0000004	-0.0000002	0.0000003	-0.0000003	0.0000005
S-140	01/08/97	02/05/97	45690	0.0000005	0.0000006	0.0000000	0.0000005	0.0000005	0.0000008
S-140	02/05/97	03/05/97	45880	-0.0000001	0.0000005	-0.0000004	0.0000006	-0.0000005	0.0000008
S-140	03/05/97	04/10/97	58384	0.0000005	0.0000006	0.0000004	0.0000009	0.0000009	0.0000011
S-140	04/10/97	05/06/97	42733	-0.0000001	0.0000007	0.0000002	0.0000007	0.0000002	0.0000010
S-140	05/06/97	06/04/97	47239	0.0000000	0.0000005	0.0000004	0.0000017	0.0000005	0.0000018
S-140	06/04/97	07/08/97	55544	0.0000009	0.0000007	0.0000003	0.0000006	0.0000012	0.0000009
S-140	07/08/97	08/12/97	56658	0.0000007	0.0000016	0.0000017	0.0000016	0.0000024	0.0000023
S-140	08/12/97	09/10/97	47681	0.0000013	0.0000013	0.0000010	0.0000011	0.0000024	0.0000017
S-140	09/10/97	10/09/97	46960	0.0000006	0.0000011	0.0000000	0.0000001	0.0000006	0.0000011
S-140	10/09/97	11/06/97	46036	0.0000005	0.0000011	0.0000008	0.0000011	0.0000012	0.0000016
S-140	11/06/97	12/05/97	47246	0.0000000	0.0000007	0.0000002	0.0000009	0.0000003	0.0000011
S-140	12/05/97	01/21/98	76605	0.0000000	0.0000005	0.0000004	0.0000006	0.0000004	0.0000008
S-141	01/08/97	02/05/97	45690	b	b	-0.0000003	0.0000011	b	b
S-141	02/05/97	03/05/97	45887	0.0000007	0.0000011	0.0000001	0.0000009	0.0000008	0.0000014
S-141	03/05/97	04/10/97	58384	0.0000000	0.0000004	-0.0000007	0.0000007	-0.0000006	0.0000008
S-141	04/10/97	05/06/97	42733	-0.0000003	0.0000004	0.0000003	0.0000018	0.0000000	0.0000019
S-141	05/06/97	06/04/97	47232	0.0000011	0.0000010	0.0000001	0.0000005	0.0000012	0.0000011
S-141	06/04/97	07/08/97	55537	0.0000003	0.0000005	0.0000008	0.0000008	0.0000012	0.0000010
S-141	07/08/97	08/12/97	56631	0.0000010	0.0000008	0.0000002	0.0000004	0.0000012	0.0000009
S-141	08/12/97	09/10/97	47681	0.0000001	0.0000011	0.0000000	0.0000001	0.0000001	0.0000011
S-141	09/10/97	10/09/97	46960	0.0000023	0.0000016	0.0000004	0.0000006	0.0000028	0.0000017
S-141	10/09/97	11/06/97	46036	-0.0000007	0.0000008	0.0000003	0.0000011	-0.0000005	0.0000014
S-141	11/06/97	12/05/97	47246	0.0000001	0.0000012	0.0000000	0.0000010	0.0000001	0.0000015
S-141	12/05/97	01/21/98	76605	0.0000002	0.0000007	0.0000008	0.0000010	0.0000011	

Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/07/97	02/05/97	47123	-0.0000001	0.0000004	-0.0000002	0.0000005	-0.0000004	0.0000006
S-131	02/05/97	03/04/97	43963	0.0000000	0.0000007	0.0000008	0.0000011	0.0000008	0.0000013
S-131	03/04/97	04/09/97	58921	0.0000001	0.0000003	0.0000000	0.0000010	0.0000002	0.0000011
S-131	04/09/97	05/08/97	46926	0.0000000	0.0000006	-0.0000001	0.0000008	-0.0000001	0.0000010
S-131	05/08/97	06/09/97	52492	-0.0000006	0.0000006	0.0000005	0.0000008	0.0000000	0.0000009
S-131	06/09/97	07/09/97	48530	-0.0000002	0.0000005	-0.0000001	0.0000006	-0.0000003	0.0000008
S-131	07/09/97	08/12/97	55415	0.0000014	0.0000013	0.0000006	0.0000009	0.0000021	0.0000015
S-131	08/12/97	09/11/97	49210	0.0000001	0.0000007	0.0000005	0.0000008	0.0000007	0.0000010
S-131	09/11/97	10/09/97	45574	0.0000018	0.0000019	0.0000002	0.0000007	0.0000020	0.0000020
S-131	10/09/97	11/07/97	47110	0.0000010	0.0000015	0.0000016	0.0000016	0.0000025	0.0000022
S-131	11/07/97	12/05/97	45907	-0.0000005	0.0000011	0.0000005	0.0000011	0.0000000	0.0000016
S-131	12/05/97	01/21/98	76605	0.0000003	0.0000006	0.0000010	0.0000011	0.0000012	0.0000013
S-132	01/07/97	02/05/97	47117	0.0000002	0.0000003	0.0000003	0.0000006	0.0000005	0.0000007
S-132	02/05/97	03/04/97	43970	0.0000000	0.0000003	0.0000000	0.0000005	0.0000000	0.0000006
S-132	03/04/97	04/09/97	55415	0.0000005	0.0000004	0.0000004	0.0000007	0.0000008	0.0000008
S-132	04/09/97	05/08/97	42951	0.0000004	0.0000005	-0.0000005	0.0000012	-0.0000001	0.0000013
S-132	05/08/97	06/09/97	49631	0.0000002	0.0000005	0.0000012	0.0000014	0.0000014	0.0000015
S-132	06/09/97	07/09/97	47728	-0.0000013	0.0000009	0.0000010	0.0000011	-0.0000002	0.0000014
S-132	07/09/97	08/12/97	55421	0.0000012	0.0000009	0.0000003	0.0000006	0.0000015	0.0000011
S-132	08/12/97	09/11/97	47762	0.0000001	0.0000012	0.0000011	0.0000013	0.0000012	0.0000017
S-132	09/11/97	10/09/97	45567	0.0000006	0.0000011	0.0000000	0.0000001	0.0000006	0.0000011
S-132	10/09/97	11/07/97	47096	0.0000017	0.0000014	-0.0000002	0.0000005	0.0000015	0.0000015
S-132	11/07/97	12/05/97	42047	-0.0000001	0.0000008	-0.0000002	0.0000004	-0.0000003	0.0000009
S-132	12/05/97	01/21/98	76598	0.0000003	0.0000009	0.0000006	0.0000007	0.0000009	0.0000012
S-134	01/07/97	02/05/97	47198	-0.0000001	0.0000002	0.0000003	0.0000007	0.0000002	0.0000007
S-134	02/05/97	03/04/97	43793	0.0000000	0.0000003	-0.0000009	0.0000010	-0.0000009	0.0000010
S-134	03/04/97	04/08/97	56998	0.0000000	0.0000002	0.0000012	0.0000016	0.0000011	0.0000016
S-134	04/08/97	05/08/97	48870	0.0000001	0.0000005	-0.0000001	0.0000001	0.0000000	0.0000005
S-134	05/08/97	06/10/97	52132	-0.0000006	0.0000005	-0.0000001	0.0000001	-0.0000007	0.0000006
S-134	06/10/97	07/09/97	47416	0.0000004	0.0000007	0.0000003	0.0000009	0.0000007	0.0000011
S-134	07/09/97	08/12/97	54436	0.0000020	0.0000008	0.0000002	0.0000006	0.0000022	0.0000011
S-134	08/12/97	09/11/97	49183	0.0000005	0.0000011	0.0000014	0.0000012	0.0000019	0.0000016
S-134	09/11/97	10/09/97	45628	0.0000012	0.0000016	0.0000006	0.0000009	0.0000018	0.0000018
S-134	10/09/97	11/07/97	47198	0.0000015	0.0000014	0.0000001	0.0000012	0.0000016	0.0000018
S-134	11/07/97	12/05/97	45866	0.0000011	0.0000012	0.0000010	0.0000017	0.0000021	0.0000021
S-134	12/05/97	01/21/98	76598	0.0000004	0.0000008	0.0000002	0.0000004	0.0000006	0.0000009
S-136	01/07/97	02/05/97	46926	0.0000000	0.0000004	0.0000003	0.0000007	0.0000003	0.0000008
S-136	02/05/97	03/04/97	43977	0.0000003	0.0000005	-0.0000006	0.0000009	-0.0000003	0.0000010
S-136	03/04/97	04/10/97	60185	-0.0000001	0.0000003	0.0000000	0.0000005	-0.0000001	0.0000006
S-136	04/10/97	05/08/97	45690	-0.0000009	0.0000006	0.0000002	0.0000010	-0.0000007	0.0000011
S-136	05/08/97	06/03/97	41259	-0.0000001	0.0000002	0.0000002	0.0000006	0.0000001	0.0000007
S-136	06/03/97	07/10/97	59757	0.0000001	0.0000002	0.0000001	0.0000004	0.0000002	0.0000004
S-136	07/10/97	08/12/97	53179	0.0000005	0.0000006	0.0000003	0.0000008	0.0000008	0.0000010
S-136	08/12/97	09/11/97	48972	0.0000002	0.0000016	0.0000005	0.0000008	0.0000007	0.0000018
S-136	09/11/97	10/10/97	47022	0.0000019	0.0000013	0.0000008	0.0000010	0.0000027	0.0000017
S-136	10/10/97	11/07/97	45785	0.0000003	0.0000010	0.0000005	0.0000010	0.0000008	0.0000014
S-136	11/07/97	12/05/97	45921	0.0000010	0.0000013	-0.0000004	0.0000005	0.0000006	0.0000014
S-136	12/05/97	01/21/98	76312	-0.0000004	0.0000005	0.0000004	0.0000006	0.0000000	0.0000007

Air Data - Ambient Air - Errata

Table 1-4 Plutonium-239 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/06/97	02/04/97	46974	0.0004048	0.0000574	0.0000167	0.0000043	0.0004215	0.0000576
S-107	02/04/97	03/03/97	44419	0.0000039	0.0000015	0.0000122	0.0000043	0.0000161	0.0000045
S-107	03/03/97	04/08/97	58282	0.0000201	0.0000031	0.0000310	0.0000070	0.0000511	0.0000076
S-107	04/08/97	05/05/97	44459	0.0000197	0.0000057	0.0000239	0.0000075	0.0000436	0.0000094
S-107b	05/05/97	06/03/97	47212	0.0000051	0.0000022	0.0000165	0.0000054	0.0000216	0.0000059
S-107	06/03/97	07/07/97	55496	0.0000122	0.0000032	0.0000158	0.0000049	0.0000281	0.0000058
S-107	07/07/97	08/07/97	50073	0.0000164	0.0000040	0.0000174	0.0000059	0.0000339	0.0000071
S-107	08/07/97	09/09/97	53315	0.0000048	0.0000019	0.0000086	0.0000035	0.0000134	0.0000040
S-107	09/09/97	10/09/97	48523	0.0000277	0.0000055	0.0000224	0.0000070	0.0000501	0.0000089
S-107	10/09/97	11/05/97	44541	0.0000154	0.0000039	0.0000590	0.0000221	0.0000744	0.0000225
S-107	11/05/97	12/04/97	46954	0.0000069	0.0000027	0.0000070	0.0000042	0.0000139	0.0000050
S-107	12/04/97	01/20/98	76917	0.0000046	0.0000017	0.0000070	0.0000028	0.0000115	0.0000033
S-007	01/06/97	02/05/97	39705	N/A	N/A	N/A	N/A	0.0000367	0.0000063
S-007	02/05/97	03/03/97	33885	N/A	N/A	N/A	N/A	0.0000254	0.0000046
S-007c	03/17/97	04/08/97	28638	N/A	N/A	N/A	N/A	0.0000859	0.0000107
S-007	04/08/97	05/05/97	39805	N/A	N/A	N/A	N/A	0.0000343	0.0000065
S-007	05/05/97	06/03/97	35717	N/A	N/A	N/A	N/A	0.0000294	0.0000065
S-007	06/03/97	07/07/97	40888	N/A	N/A	N/A	N/A	0.0000336	0.0000065
S-007	07/07/97	08/07/97	37198	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40532	N/A	N/A	N/A	N/A	0.0000128	0.0000038
S-007	09/09/97	10/09/97	37727	N/A	N/A	N/A	N/A	0.0000680	0.0000109
S-007	10/09/97	11/05/97	31345	N/A	N/A	N/A	N/A	0.0000488	0.0000092
S-007	11/05/97	12/04/97	32446	N/A	N/A	N/A	N/A	0.0000143	0.0000042
S-007	12/04/97	01/20/98	60313	N/A	N/A	N/A	N/A	0.0000140	0.0000037

- a These data have not been corrected for temperature.
- b Fine and Coarse samples were cross-contaminated. Total values only are valid.
- c Sample for half of the month was lost; results reflect half month only.

N/A = Not Applicable

Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-201	01/21/98	02/05/98	22882	0.0000014	0.0000029	0.0000006	0.0000033	0.0000020	0.0000044
S-201	02/05/98	03/10/98	55204	0.0000001	0.0000005	-0.0000007	0.0000011	-0.0000006	0.0000012
S-201	03/10/98	04/09/98	48890	0.0000001	0.0000005	-0.0000003	0.0000013	-0.0000002	0.0000014
S-201	04/09/98	05/06/98	42692	0.0000005	0.0000004	-0.0000011	0.0000010	-0.0000006	0.0000011
S-201	05/06/98	06/04/98	47558	0.0000005	0.0000006	0.0000012	0.0000018	0.0000017	0.0000019
S-207	01/21/98	02/05/98	23188	0.0000018	0.0000018	-0.0000011	0.0000028	0.0000008	0.0000033
S-207	02/05/98	03/10/98	54932	-0.0000005	0.0000008	0.0000005	0.0000012	0.0000000	0.0000014
S-207	03/10/98	04/09/98	48843	0.0000001	0.0000006	-0.0000016	0.0000014	-0.0000016	0.0000015
S-207	04/09/98	05/06/98	44086	-0.0000001	0.0000006	0.0000007	0.0000019	0.0000006	0.0000020
S-207	05/06/98	06/04/98	47545	-0.0000008	0.0000010	-0.0000005	0.0000014	-0.0000012	0.0000017
S-209	01/21/98	02/05/98	22964	-0.0000002	0.0000010	0.0000033	0.0000055	0.0000032	0.0000056
S-209	02/05/98	03/10/98	55122	0.0000008	0.0000012	0.0000002	0.0000013	0.0000010	0.0000018
S-209	03/10/98	04/09/98	48822	0.0000005	0.0000012	-0.0000011	0.0000007	-0.0000006	0.0000014
S-209	04/09/98	05/06/98	44065	0.0000003	0.0000008	-0.0000005	0.0000011	-0.0000002	0.0000014
S-209	05/06/98	06/04/98	47545	0.0000001	0.0000005	0.0000003	0.0000013	0.0000005	0.0000014
S-038	01/21/98	02/05/98	17717	N/A	N/A	N/A	N/A	0.0000025	0.0000027
S-038	02/05/98	03/10/98	41062	N/A	N/A	N/A	N/A	-0.0000006	0.0000009
S-038	03/10/98	04/09/98	36382	N/A	N/A	N/A	N/A	-0.0000004	0.0000011
S-038	04/09/98	05/06/98	31721	N/A	N/A	N/A	N/A	0.0000019	0.0000011
S-038	05/06/98	06/04/98	31773	N/A	N/A	N/A	N/A	0.0000002	0.0000008

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-131	01/21/98	02/05/98	24269	0.0000002	0.0000016	0.0000010	0.0000033	0.0000012	0.0000037
S-131	02/05/98	03/10/98	53987	0.0000005	0.0000006	-0.0000007	0.0000018	-0.0000003	0.0000019
S-131	03/10/98	04/09/98	48890	0.0000011	0.0000008	0.0000017	0.0000021	0.0000028	0.0000023
S-131	04/09/98	05/06/98	43841	0.0000009	0.0000007	-0.0000010	0.0000013	-0.0000001	0.0000014
S-131	05/06/98	06/04/98	47552	0.0000003	0.0000009	0.0000014	0.0000027	0.0000011	0.0000028
S-132	01/21/98	02/05/98	24275	-0.0000007	0.0000012	0.0000010	0.0000032	0.0000003	0.0000034
S-132	02/05/98	03/10/98	27136	-0.0000001	0.0000007	-0.0000003	0.0000012	-0.0000005	0.0000014
S-132	03/10/98	04/09/98	38758	-0.0000001	0.0000007	0.0000010	0.0000034	0.0000009	0.0000035
S-132	04/09/98	05/06/98	41863	0.0000004	0.0000006	-0.0000002	0.0000014	0.0000002	0.0000015
S-132	05/06/98	06/04/98	24248	0.0000004	0.0000006	-0.0000029	0.0000024	-0.0000025	0.0000025
S-134	01/21/98	02/05/98	22862	0.0000003	0.0000010	0.0000039	0.0000043	0.0000042	0.0000044
S-134	02/05/98	03/10/98	55143	0.0000000	0.0000006	0.0000000	0.0000012	0.0000000	0.0000013
S-134	03/10/98	04/09/98	48890	0.0000003	0.0000006	-0.0000003	0.0000013	0.0000000	0.0000014
S-134	04/09/98	05/06/98	43698	0.0000007	0.0000006	0.0000008	0.0000018	0.0000015	0.0000018
S-134	05/06/98	06/04/98	47558	-0.0000007	0.0000008	-0.0000015	0.0000023	-0.0000007	0.0000024
S-136	01/21/98	02/05/98	23120	-0.0000005	0.0000008	0.0000012	0.0000036	0.0000007	0.0000037
S-136	02/05/98	03/10/98	54878	-0.0000002	0.0000005	-0.0000002	0.0000010	-0.0000004	0.0000012
S-136	03/10/98	04/09/98	48843	-0.0000003	0.0000008	-0.0000004	0.0000012	-0.0000007	0.0000014
S-136	04/09/98	05/06/98	44154	0.0000001	0.0000006	0.0000024	0.0000022	0.0000025	0.0000022
S-136	05/06/98	06/04/98	47565	0.0000004	0.0000006	0.0000037	0.0000070	0.0000041	0.0000071
S-137	01/21/98	02/05/98	23140	-0.0000013	0.0000013	-0.0000033	0.0000031	-0.0000046	0.0000033
S-137	02/05/98	03/10/98	54878	0.0000000	0.0000006	0.0000011	0.0000014	0.0000011	0.0000015
S-137	03/10/98	04/09/98	48843	0.0000001	0.0000008	-0.0000003	0.0000007	-0.0000002	0.0000011
S-137	04/09/98	05/06/98	44160	0.0000006	0.0000008	0.0000002	0.0000016	0.0000008	0.0000018
S-137	05/06/98	06/04/98	47558	0.0000004	0.0000009	0.0000030	0.0000042	0.0000034	0.0000043
S-138	01/21/98	02/05/98	23059	-0.0000011	0.0000015	-0.0000022	0.0000027	-0.0000033	0.0000031
S-138	02/05/98	03/10/98	50984	0.0000004	0.0000006	0.0000002	0.0000014	0.0000006	0.0000015
S-138	03/10/98	04/09/98	44487	-0.0000004	0.0000010	0.0000006	0.0000018	0.0000001	0.0000020
S-138	04/09/98	05/06/98	34768	-0.0000001	0.0000007	0.0000001	0.0000028	0.0000000	0.0000029
S-138	05/06/98	06/04/98	46573	0.0000007	0.0000007	-0.0000004	0.0000017	0.0000002	0.0000019
S-140	01/21/98	02/05/98	22970	-0.0000005	0.0000016	0.0000018	0.0000039	0.0000013	0.0000042
S-140	02/05/98	03/10/98	55109	-0.0000001	0.0000010	-0.0000008	0.0000009	-0.0000009	0.0000014
S-140	03/10/98	04/09/98	48843	0.0000000	0.0000005	-0.0000002	0.0000017	-0.0000002	0.0000018
S-140	04/09/98	05/06/98	44065	0.0000004	0.0000012	0.0000023	0.0000023	0.0000027	0.0000026
S-140	05/06/98	06/04/98	47538	0.0000007	0.0000008	0.0000037	0.0000030	0.0000044	0.0000031
S-141	01/21/98	02/05/98	22964	-0.0000001	0.0000014	-0.0000005	0.0000029	-0.0000006	0.0000032
S-141	02/05/98	03/10/98	55122	0.0000001	0.0000006	-0.0000004	0.0000015	-0.0000003	0.0000016
S-141	03/10/98	04/09/98	48843	-0.0000002	0.0000007	-0.0000010	0.0000012	-0.0000012	0.0000014
S-141	04/09/98	05/06/98	44065	0.0000003	0.0000006	-0.0000012	0.0000014	-0.0000009	0.0000015
S-141	05/06/98	06/04/98	47538	-0.0000001	0.0000005	-0.0000006	0.0000017	-0.0000007	0.0000018
S-142	01/21/98	02/05/98	22970	-0.0000006	0.0000010	0.0000009	0.0000044	0.0000004	0.0000045
S-142	02/05/98	03/10/98	55122	0.0000000	0.0000005	0.0000012	0.0000022	0.0000012	0.0000022
S-142	03/10/98	04/09/98	48843	0.0000000	0.0000006	-0.0000007	0.0000013	-0.0000007	0.0000014
S-142	04/09/98	05/06/98	44058	0.0000003	0.0000007	-0.0000001	0.0000013	0.0000002	0.0000015
S-142	05/06/98	06/04/98	47552	0.0000007	0.0000013	0.0000027	0.0000024	0.0000034	0.0000027

Table 1-12 Americium-241 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/20/98	02/04/98	24173	0.0000025	0.0000026	0.0001109	0.0000333	0.0001134	0.0000334
S-107	02/04/98	03/05/98	47545	0.0000017	0.0000012	0.0000048	0.0000036	0.0000065	0.0000038
S-107	03/05/98	04/08/98	55150	0.0000010	0.0000008	0.0000021	0.0000017	0.0000031	0.0000019
S-107	04/08/98	05/07/98	47266	0.0000020	0.0000009	0.0000035	0.0000025	0.0000055	0.0000026
S-107	05/07/98	05/29/98	36087	0.0000021	0.0000018	0.0000068	0.0000047	0.0000090	0.0000050
S-007	01/20/98	02/04/98	18884	N/A	N/A	N/A	N/A	0.0000061	0.0000027
S-007	02/04/98	03/05/98	37012	N/A	N/A	N/A	N/A	0.0000080	0.0000026
S-007	03/05/98	04/08/98	42369	N/A	N/A	N/A	N/A	0.0000040	0.0000016
S-007	04/08/98	05/07/98	34915	N/A	N/A	N/A	N/A	0.0000063	0.0000022
S-007	05/07/98	06/03/98	31639	N/A	N/A	N/A	N/A	0.0000087	0.0000030

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-201	01/21/98	02/05/98	22882	0.0000180	0.0000073	0.0000080	0.0000094	0.0000259	0.0000119
S-201	02/05/98	03/10/98	55204	0.0000070	0.0000027	0.0000107	0.0000051	0.0000176	0.0000058
S-201	03/10/98	04/09/98	48890	0.0000099	0.0000033	0.0000064	0.0000063	0.0000163	0.0000071
S-201	04/09/98	05/06/98	42692	0.0000243	0.0000046	0.0000135	0.0000082	0.0000378	0.0000095
S-201	05/06/98	06/04/98	47558	0.0000191	0.0000072	0.0000100	0.0000055	0.0000291	0.0000090
S-207	01/21/98	02/05/98	23188	0.0000185	0.0000072	0.0000130	0.0000105	0.0000315	0.0000128
S-207	02/05/98	03/10/98	54932	0.0000131	0.0000035	0.0000085	0.0000053	0.0000216	0.0000064
S-207	03/10/98	04/09/98	48843	0.0000117	0.0000036	0.0000120	0.0000066	0.0000237	0.0000075
S-207	04/09/98	05/06/98	44086	0.0000231	0.0000045	0.0000218	0.0000116	0.0000449	0.0000125
S-207	05/06/98	06/04/98	47545	0.0000138	0.0000039	0.0000125	0.0000059	0.0000263	0.0000070
S-209	01/21/98	02/05/98	22964	0.0000133	0.0000066	0.0000134	0.0000112	0.0000266	0.0000130
S-209	02/05/98	03/10/98	55122	0.0000081	0.0000029	0.0000066	0.0000052	0.0000148	0.0000059
S-209	03/10/98	04/09/98	48822	0.0000099	0.0000034	0.0000134	0.0000069	0.0000232	0.0000077
S-209	04/09/98	05/06/98	44065	0.0000253	0.0000049	0.0000171	0.0000097	0.0000424	0.0000108
S-209	05/06/98	06/04/98	47545	0.0000115	0.0000037	0.0000087	0.0000050	0.0000201	0.0000062
S-038	01/21/98	02/05/98	17717	N/A	N/A	N/A	N/A	0.0000282	0.0000075
S-038	02/05/98	03/10/98	41062	N/A	N/A	N/A	N/A	0.0000142	0.0000054
S-038	03/10/98	04/09/98	36382	N/A	N/A	N/A	N/A	0.0000152	0.0000057
S-038	04/09/98	05/06/98	31721	N/A	N/A	N/A	N/A	0.0000504	0.0000084
S-038	05/06/98	06/04/98	31773	N/A	N/A	N/A	N/A	0.0000586	0.0000093

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/21/98	02/05/98	24269	0.0000138	0.0000052	0.0000198	0.0000109	0.0000336	0.0000121
S-131	02/05/98	03/10/98	53987	0.0000091	0.0000030	0.0000135	0.0000058	0.0000226	0.0000065
S-131	03/10/98	04/09/98	48890	0.0000162	0.0000041	0.0000247	0.0000122	0.0000409	0.0000129
S-131	04/09/98	05/06/98	43841	0.0000228	0.0000044	0.0000179	0.0000108	0.0000406	0.0000116
S-131	05/06/98	06/04/98	47552	0.0000163	0.0000042	0.0000457	0.0000241	0.0000620	0.0000245
S-132	01/21/98	02/05/98	24275	0.0000295	0.0000068	0.0000361	0.0000145	0.0000656	0.0000160
S-132	02/05/98	03/10/98	27136	0.0000157	0.0000039	0.0000242	0.0000086	0.0000399	0.0000095
S-132	03/10/98	04/09/98	38758	0.0000268	0.0000060	0.0000319	0.0000156	0.0000587	0.0000167
S-132	04/09/98	05/06/98	41863	0.0000371	0.0000061	0.0000277	0.0000133	0.0000648	0.0000147
S-132	05/06/98	06/04/98	24248	0.0000234	0.0000048	0.0000329	0.0000117	0.0000563	0.0000127
S-134	01/21/98	02/05/98	22862	0.0000157	0.0000057	0.0000159	0.0000108	0.0000316	0.0000122
S-134	02/05/98	03/10/98	55143	0.0000056	0.0000026	0.0000063	0.0000040	0.0000119	0.0000048
S-134	03/10/98	04/09/98	48890	0.0000082	0.0000031	0.0000083	0.0000071	0.0000165	0.0000078
S-134	04/09/98	05/06/98	43698	0.0000223	0.0000043	0.0000072	0.0000070	0.0000295	0.0000082
S-134	05/06/98	06/04/98	47558	0.0000159	0.0000067	0.0000047	0.0000040	0.0000206	0.0000078
S-136	01/21/98	02/05/98	23120	0.0000109	0.0000050	0.0000162	0.0000105	0.0000272	0.0000116
S-136	02/05/98	03/10/98	54878	0.0000068	0.0000027	0.0000087	0.0000045	0.0000155	0.0000053
S-136	03/10/98	04/09/98	48843	0.0000057	0.0000029	0.0000064	0.0000062	0.0000121	0.0000068
S-136	04/09/98	05/06/98	44154	0.0000232	0.0000043	0.0000047	0.0000063	0.0000279	0.0000076
S-136	05/06/98	06/04/98	47565	0.0000143	0.0000058	0.0000208	0.0000092	0.0000351	0.0000108
S-137	01/21/98	02/05/98	23140	0.0000161	0.0000056	0.0000092	0.0000084	0.0000253	0.0000101
S-137	02/05/98	03/10/98	54878	0.0000114	0.0000032	0.0000155	0.0000065	0.0000269	0.0000072
S-137	03/10/98	04/09/98	48843	0.0000146	0.0000040	0.0000139	0.0000086	0.0000286	0.0000094
S-137	04/09/98	05/06/98	44160	0.0000277	0.0000049	0.0000126	0.0000086	0.0000404	0.0000099
S-137	05/06/98	06/04/98	47558	0.0000135	0.0000038	0.0000238	0.0000101	0.0000374	0.0000108
S-138	01/21/98	02/05/98	23059	0.0000081	0.0000047	0.0000065	0.0000076	0.0000147	0.0000090
S-138	02/05/98	03/10/98	50984	0.0000081	0.0000030	0.0000100	0.0000050	0.0000181	0.0000058
S-138	03/10/98	04/09/98	44487	0.0000116	0.0000038	0.0000080	0.0000071	0.0000196	0.0000080
S-138	04/09/98	05/06/98	34768	0.0000294	0.0000054	0.0000061	0.0000077	0.0000355	0.0000094
S-138	05/06/98	06/04/98	46573	0.0000108	0.0000036	0.0000100	0.0000055	0.0000209	0.0000066
S-140	01/21/98	02/05/98	22970	0.0000225	0.0000066	0.0000231	0.0000120	0.0000456	0.0000137
S-140	02/05/98	03/10/98	55109	0.0000138	0.0000035	0.0000223	0.0000077	0.0000361	0.0000085
S-140	03/10/98	04/09/98	48843	0.0000266	0.0000055	0.0000389	0.0000170	0.0000655	0.0000178
S-140	04/09/98	05/06/98	44065	0.0000347	0.0000059	0.0000171	0.0000087	0.0000518	0.0000105
S-140	05/06/98	06/04/98	47538	0.0000237	0.0000050	0.0000348	0.0000121	0.0000585	0.0000131
S-141	01/21/98	02/05/98	22964	0.0000109	0.0000064	0.0000093	0.0000078	0.0000202	0.0000101
S-141	02/05/98	03/10/98	55122	0.0000079	0.0000031	0.0000140	0.0000060	0.0000220	0.0000067
S-141	03/10/98	04/09/98	48843	0.0000119	0.0000036	0.0000240	0.0000126	0.0000359	0.0000131
S-141	04/09/98	05/06/98	44065	0.0000213	0.0000043	0.0000121	0.0000075	0.0000334	0.0000087
S-141	05/06/98	06/04/98	47538	0.0000118	0.0000060	0.0000138	0.0000064	0.0000257	0.0000088
S-142	01/21/98	02/05/98	22970	0.0000058	0.0000061	0.0000157	0.0000110	0.0000215	0.0000125
S-142	02/05/98	03/10/98	55122	0.0000108	0.0000033	0.0000229	0.0000114	0.0000337	0.0000119
S-142	03/10/98	04/09/98	48843	0.0000093	0.0000033	0.0000123	0.0000066	0.0000217	0.0000074
S-142	04/09/98	05/06/98	44058	0.0000210	0.0000042	0.0000112	0.0000061	0.0000323	0.0000074
S-142	05/06/98	06/04/98	47552	0.0000147	0.0000067	0.0000090	0.0000052	0.0000236	0.0000085

Table 1-10 Uranium-238 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/20/98	02/04/98	24173	0.0000180	0.0000056	0.0000092	0.0000080	0.0000272	0.0000098
S-107	02/04/98	03/05/98	47545	0.0000074	0.0000031	0.0000137	0.0000062	0.0000211	0.0000069
S-107	03/05/98	04/08/98	55150	0.0000112	0.0000032	0.0000190	0.0000100	0.0000302	0.0000105
S-107	04/08/98	05/07/98	47266	0.0000226	0.0000042	0.0000122	0.0000082	0.0000348	0.0000092
S-107	05/07/98	05/29/98	36087	0.0000168	0.0000065	0.0000072	0.0000093	0.0000239	0.0000114
S-007	01/20/98	02/04/98	18884	N/A	N/A	N/A	N/A	0.0000182	0.0000064
S-007	02/04/98	03/05/98	37012	N/A	N/A	N/A	N/A	0.0000175	0.0000061
S-007	03/05/98	04/08/98	42369	N/A	N/A	N/A	N/A	0.0000190	0.0000054
S-007	04/08/98	05/07/98	34915	N/A	N/A	N/A	N/A	0.0000481	0.0000080
S-007	05/07/98	06/03/98	31639	N/A	N/A	N/A	N/A	0.0000341	0.0000082

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-201	01/21/98	02/05/98	22882	-0.0000007	0.0000010	0.0000018	0.0000032	0.0000011	0.0000034
S-201	02/05/98	03/10/98	55204	0.0000000	0.0000005	0.0000004	0.0000008	0.0000004	0.0000010
S-201	03/10/98	04/09/98	48890	0.0000004	0.0000008	-0.0000003	0.0000002	0.0000001	0.0000008
S-201	04/09/98	05/06/98	42692	0.0000026	0.0000014	0.0000003	0.0000013	0.0000029	0.0000019
S-201	05/06/98	06/04/98	47558	0.0000008	0.0000018	0.0000013	0.0000017	0.0000021	0.0000025
S-207	01/21/98	02/05/98	23188	-0.0000009	0.0000010	-0.0000004	0.0000003	-0.0000013	0.0000011
S-207	02/05/98	03/10/98	54932	0.0000004	0.0000008	0.0000007	0.0000013	0.0000011	0.0000015
S-207	03/10/98	04/09/98	48843	0.0000007	0.0000008	-0.0000003	0.0000003	0.0000004	0.0000009
S-207	04/09/98	05/06/98	44086	0.0000029	0.0000013	0.0000009	0.0000024	0.0000038	0.0000027
S-207	05/06/98	06/04/98	47545	0.0000014	0.0000011	0.0000012	0.0000013	0.0000025	0.0000017
S-209	01/21/98	02/05/98	22964	-0.0000001	0.0000014	0.0000007	0.0000023	0.0000006	0.0000027
S-209	02/05/98	03/10/98	55122	0.0000004	0.0000007	-0.0000002	0.0000001	0.0000002	0.0000007
S-209	03/10/98	04/09/98	48822	0.0000003	0.0000008	0.0000021	0.0000022	0.0000024	0.0000023
S-209	04/09/98	05/06/98	44065	0.0000023	0.0000013	0.0000015	0.0000026	0.0000039	0.0000029
S-209	05/06/98	06/04/98	47545	0.0000015	0.0000012	0.0000006	0.0000010	0.0000021	0.0000016
S-038	01/21/98	02/05/98	17717	N/A	N/A	N/A	N/A	0.0000004	0.0000018
S-038	02/05/98	03/10/98	41062	N/A	N/A	N/A	N/A	0.0000018	0.0000016
S-038	03/10/98	04/09/98	36382	N/A	N/A	N/A	N/A	0.0000011	0.0000015
S-038	04/09/98	05/06/98	31721	N/A	N/A	N/A	N/A	0.0000027	0.0000014
S-038	05/06/98	06/04/98	31773	N/A	N/A	N/A	N/A	0.0000020	0.0000020

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/21/98	02/05/98	24269	0.0000000	0.0000011	0.0000005	0.0000020	0.0000005	0.0000023
S-131	02/05/98	03/10/98	53987	0.0000003	0.0000007	0.0000016	0.0000015	0.0000019	0.0000017
S-131	03/10/98	04/09/98	48890	0.0000009	0.0000009	0.0000004	0.0000017	0.0000013	0.0000019
S-131	04/09/98	05/06/98	43841	0.0000013	0.0000009	0.0000014	0.0000025	0.0000027	0.0000027
S-131	05/06/98	06/04/98	47552	0.0000014	0.0000012	0.0000028	0.0000044	0.0000042	0.0000045
S-132	01/21/98	02/05/98	24275	0.0000022	0.0000016	0.0000018	0.0000025	0.0000040	0.0000030
S-132	02/05/98	03/10/98	27136	0.0000009	0.0000009	0.0000004	0.0000009	0.0000013	0.0000012
S-132	03/10/98	04/09/98	38758	0.0000006	0.0000010	0.0000027	0.0000037	0.0000033	0.0000038
S-132	04/09/98	05/06/98	41863	0.0000009	0.0000008	0.0000004	0.0000016	0.0000013	0.0000018
S-132	05/06/98	06/04/98	24248	0.0000014	0.0000011	0.0000009	0.0000014	0.0000023	0.0000018
S-134	01/21/98	02/05/98	22862	0.0000019	0.0000016	0.0000010	0.0000024	0.0000029	0.0000028
S-134	02/05/98	03/10/98	55143	0.0000003	0.0000006	0.0000001	0.0000006	0.0000004	0.0000008
S-134	03/10/98	04/09/98	48890	0.0000002	0.0000008	0.0000005	0.0000017	0.0000007	0.0000019
S-134	04/09/98	05/06/98	43698	0.0000013	0.0000009	-0.0000002	0.0000001	0.0000010	0.0000009
S-134	05/06/98	06/04/98	47558	0.0000018	0.0000021	0.0000006	0.0000011	0.0000024	0.0000024
S-136	01/21/98	02/05/98	23120	0.0000004	0.0000014	0.0000001	0.0000015	0.0000005	0.0000021
S-136	02/05/98	03/10/98	54878	0.0000005	0.0000008	0.0000002	0.0000008	0.0000007	0.0000011
S-136	03/10/98	04/09/98	48843	0.0000001	0.0000008	-0.0000004	0.0000003	-0.0000003	0.0000008
S-136	04/09/98	05/06/98	44154	0.0000010	0.0000008	0.0000005	0.0000018	0.0000014	0.0000020
S-136	05/06/98	06/04/98	47565	0.0000021	0.0000020	0.0000012	0.0000017	0.0000033	0.0000026
S-137	01/21/98	02/05/98	23140	-0.0000004	0.0000010	0.0000019	0.0000030	0.0000015	0.0000031
S-137	02/05/98	03/10/98	54878	0.0000000	0.0000006	0.0000003	0.0000009	0.0000003	0.0000011
S-137	03/10/98	04/09/98	48843	0.0000011	0.0000010	0.0000003	0.0000015	0.0000014	0.0000018
S-137	04/09/98	05/06/98	44160	0.0000012	0.0000009	-0.0000002	0.0000001	0.0000010	0.0000009
S-137	05/06/98	06/04/98	47558	0.0000005	0.0000009	0.0000010	0.0000018	0.0000016	0.0000020
S-138	01/21/98	02/05/98	23059	-0.0000002	0.0000012	-0.0000009	0.0000007	-0.0000011	0.0000014
S-138	02/05/98	03/10/98	50984	0.0000002	0.0000006	0.0000008	0.0000011	0.0000010	0.0000013
S-138	03/10/98	04/09/98	44487	0.0000003	0.0000009	-0.0000003	0.0000002	-0.0000001	0.0000009
S-138	04/09/98	05/06/98	34768	-0.0000001	0.0000007	0.0000007	0.0000020	0.0000006	0.0000021
S-138	05/06/98	06/04/98	46573	0.0000007	0.0000009	0.0000000	0.0000007	0.0000007	0.0000011
S-140	01/21/98	02/05/98	22970	-0.0000006	0.0000011	0.0000001	0.0000014	-0.0000005	0.0000018
S-140	02/05/98	03/10/98	55109	0.0000006	0.0000008	0.0000014	0.0000014	0.0000020	0.0000016
S-140	03/10/98	04/09/98	48843	-0.0000003	0.0000008	0.0000006	0.0000018	0.0000003	0.0000020
S-140	04/09/98	05/06/98	44065	0.0000015	0.0000010	0.0000013	0.0000019	0.0000029	0.0000022
S-140	05/06/98	06/04/98	47538	0.0000014	0.0000012	0.0000005	0.0000011	0.0000019	0.0000016
S-141	01/21/98	02/05/98	22964	-0.0000006	0.0000015	0.0000000	0.0000012	-0.0000006	0.0000019
S-141	02/05/98	03/10/98	55122	-0.0000002	0.0000007	0.0000009	0.0000012	0.0000007	0.0000013
S-141	03/10/98	04/09/98	48843	0.0000006	0.0000008	-0.0000003	0.0000002	0.0000003	0.0000008
S-141	04/09/98	05/06/98	44065	0.0000011	0.0000010	0.0000002	0.0000012	0.0000013	0.0000016
S-141	05/06/98	06/04/98	47538	0.0000003	0.0000011	0.0000006	0.0000011	0.0000003	0.0000016
S-142	01/21/98	02/05/98	22970	0.0000004	0.0000017	-0.0000009	0.0000008	-0.0000005	0.0000019
S-142	02/05/98	03/10/98	55122	0.0000001	0.0000006	0.0000030	0.0000033	0.0000030	0.0000034
S-142	03/10/98	04/09/98	48843	0.0000004	0.0000008	0.0000006	0.0000013	0.0000010	0.0000016
S-142	04/09/98	05/06/98	44058	0.0000031	0.0000014	0.0000008	0.0000012	0.0000039	0.0000019
S-142	05/06/98	06/04/98	47552	0.0000014	0.0000023	0.0000014	0.0000016	0.0000029	0.0000027

Table 1-8 Uranium-235 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/20/98	02/04/98	24173	-0.0000002	0.0000012	0.0000001	0.0000014	-0.0000001	0.0000018
S-107	02/04/98	03/05/98	47545	0.0000004	0.0000009	0.0000013	0.0000015	0.0000017	0.0000017
S-107	03/05/98	04/08/98	55150	0.0000016	0.0000010	0.0000005	0.0000015	0.0000021	0.0000018
S-107	04/08/98	05/07/98	47266	0.0000016	0.0000009	0.0000012	0.0000021	0.0000028	0.0000023
S-107	05/07/98	05/29/98	36087	0.0000013	0.0000020	-0.0000009	0.0000002	0.0000004	0.0000020
S-007	01/20/98	02/04/98	18884	N/A	N/A	N/A	N/A	0.0000009	0.0000014
S-007	02/04/98	03/05/98	37012	N/A	N/A	N/A	N/A	0.0000002	0.0000013
S-007	03/05/98	04/08/98	42369	N/A	N/A	N/A	N/A	0.0000003	0.0000011
S-007	04/08/98	05/07/98	34915	N/A	N/A	N/A	N/A	0.0000021	0.0000013
S-007	05/07/98	06/03/98	31639	N/A	N/A	N/A	N/A	0.0000026	0.0000020

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-201	01/21/98	02/05/98	22882	0.0000216	0.0000077	0.0000057	0.0000076	0.0000273	0.0000108
S-201	02/05/98	03/10/98	55204	0.0000089	0.0000030	0.0000093	0.0000044	0.0000182	0.0000053
S-201	03/10/98	04/09/98	48890	0.0000077	0.0000031	0.0000071	0.0000060	0.0000148	0.0000067
S-201	04/09/98	05/06/98	42692	0.0000250	0.0000047	0.0000175	0.0000089	0.0000425	0.0000101
S-201	05/06/98	06/04/98	47558	0.0000199	0.0000073	0.0000136	0.0000060	0.0000335	0.0000095
S-207	01/21/98	02/05/98	23188	0.0000096	0.0000063	0.0000167	0.0000107	0.0000263	0.0000124
S-207	02/05/98	03/10/98	54932	0.0000130	0.0000035	0.0000129	0.0000062	0.0000260	0.0000071
S-207	03/10/98	04/09/98	48843	0.0000120	0.0000037	0.0000133	0.0000065	0.0000252	0.0000074
S-207	04/09/98	05/06/98	44086	0.0000215	0.0000043	0.0000126	0.0000082	0.0000341	0.0000093
S-207	05/06/98	06/04/98	47545	0.0000157	0.0000041	0.0000100	0.0000049	0.0000257	0.0000064
S-209	01/21/98	02/05/98	22964	0.0000157	0.0000069	0.0000065	0.0000079	0.0000223	0.0000105
S-209	02/05/98	03/10/98	55122	0.0000085	0.0000030	0.0000128	0.0000066	0.0000213	0.0000072
S-209	03/10/98	04/09/98	48822	0.0000125	0.0000038	0.0000146	0.0000068	0.0000271	0.0000078
S-209	04/09/98	05/06/98	44065	0.0000285	0.0000053	0.0000096	0.0000069	0.0000381	0.0000087
S-209	05/06/98	06/04/98	47545	0.0000109	0.0000036	0.0000132	0.0000057	0.0000240	0.0000067
S-038	01/21/98	02/05/98	17717	N/A	N/A	N/A	N/A	0.0000229	0.0000077
S-038	02/05/98	03/10/98	41062	N/A	N/A	N/A	N/A	0.0000167	0.0000055
S-038	03/10/98	04/09/98	36382	N/A	N/A	N/A	N/A	0.0000193	0.0000061
S-038	04/09/98	05/06/98	31721	N/A	N/A	N/A	N/A	0.0000570	0.0000092
S-038	05/06/98	06/04/98	31773	N/A	N/A	N/A	N/A	0.0000278	0.0000075

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-131	01/21/98	02/05/98	24269	0.0000211	0.0000058	0.0000228	0.0000108	0.0000439	0.0000122
S-131	02/05/98	03/10/98	53987	0.0000103	0.0000031	0.0000143	0.0000056	0.0000246	0.0000064
S-131	03/10/98	04/09/98	48890	0.0000141	0.0000039	0.0000180	0.0000097	0.0000321	0.0000104
S-131	04/09/98	05/06/98	43841	0.0000259	0.0000048	0.0000162	0.0000097	0.0000421	0.0000108
S-131	05/06/98	06/04/98	47552	0.0000146	0.0000040	0.0000420	0.0000220	0.0000566	0.0000224
S-132	01/21/98	02/05/98	24275	0.0000254	0.0000063	0.0000313	0.0000125	0.0000567	0.0000140
S-132	02/05/98	03/10/98	27136	0.0000189	0.0000044	0.0000232	0.0000080	0.0000421	0.0000091
S-132	03/10/98	04/09/98	38758	0.0000226	0.0000055	0.0000245	0.0000127	0.0000471	0.0000138
S-132	04/09/98	05/06/98	41863	0.0000367	0.0000061	0.0000246	0.0000119	0.0000613	0.0000134
S-132	05/06/98	06/04/98	24248	0.0000282	0.0000054	0.0000347	0.0000118	0.0000629	0.0000130
S-134	01/21/98	02/05/98	22862	0.0000181	0.0000058	0.0000112	0.0000084	0.0000293	0.0000102
S-134	02/05/98	03/10/98	55143	0.0000052	0.0000026	0.0000082	0.0000041	0.0000134	0.0000049
S-134	03/10/98	04/09/98	48890	0.0000064	0.0000030	0.0000130	0.0000081	0.0000194	0.0000086
S-134	04/09/98	05/06/98	43698	0.0000229	0.0000043	0.0000051	0.0000057	0.0000279	0.0000072
S-134	05/06/98	06/04/98	47558	0.0000209	0.0000075	0.0000067	0.0000041	0.0000276	0.0000085
S-136	01/21/98	02/05/98	23120	0.0000089	0.0000047	0.0000194	0.0000103	0.0000284	0.0000113
S-136	02/05/98	03/10/98	54878	0.0000069	0.0000027	0.0000041	0.0000030	0.0000110	0.0000041
S-136	03/10/98	04/09/98	48843	0.0000093	0.0000325	0.0000027	0.0000042	0.0000121	0.0000328
S-136	04/09/98	05/06/98	44154	0.0000218	0.0000041	0.0000059	0.0000061	0.0000277	0.0000073
S-136	05/06/98	06/04/98	47565	0.0000106	0.0000053	0.0000142	0.0000070	0.0000248	0.0000087
S-137	01/21/98	02/05/98	23140	0.0000216	0.0000060	0.0000161	0.0000092	0.0000377	0.0000110
S-137	02/05/98	03/10/98	54878	0.0000100	0.0000031	0.0000180	0.0000067	0.0000280	0.0000074
S-137	03/10/98	04/09/98	48843	0.0000147	0.0000040	0.0000154	0.0000085	0.0000301	0.0000094
S-137	04/09/98	05/06/98	44160	0.0000254	0.0000046	0.0000079	0.0000065	0.0000333	0.0000079
S-137	05/06/98	06/04/98	47558	0.0000143	0.0000039	0.0000167	0.0000078	0.0000309	0.0000087
S-138	01/21/98	02/05/98	23059	0.0000090	0.0000048	0.0000063	0.0000065	0.0000153	0.0000081
S-138	02/05/98	03/10/98	50984	0.0000078	0.0000030	0.0000128	0.0000053	0.0000206	0.0000061
S-138	03/10/98	04/09/98	44487	0.0000116	0.0000038	0.0000076	0.0000062	0.0000192	0.0000073
S-138	04/09/98	05/06/98	34768	0.0000281	0.0000053	-0.0000003	0.0000044	0.0000278	0.0000069
S-138	05/06/98	06/04/98	46573	0.0000151	0.0000041	0.0000116	0.0000055	0.0000267	0.0000068
S-140	01/21/98	02/05/98	22970	0.0000245	0.0000067	0.0000255	0.0000116	0.0000500	0.0000134
S-140	02/05/98	03/10/98	55109	0.0000128	0.0000034	0.0000202	0.0000069	0.0000330	0.0000077
S-140	03/10/98	04/09/98	48843	0.0000273	0.0000056	0.0000395	0.0000166	0.0000668	0.0000175
S-140	04/09/98	05/06/98	44065	0.0000339	0.0000058	0.0000258	0.0000106	0.0000597	0.0000121
S-140	05/06/98	06/04/98	47538	0.0000237	0.0000050	0.0000320	0.0000110	0.0000557	0.0000121
S-141	01/21/98	02/05/98	22964	0.0000096	0.0000063	0.0000146	0.0000082	0.0000241	0.0000104
S-141	02/05/98	03/10/98	55122	0.0000085	0.0000031	0.0000097	0.0000045	0.0000182	0.0000055
S-141	03/10/98	04/09/98	48843	0.0000079	0.0000032	0.0000110	0.0000078	0.0000188	0.0000084
S-141	04/09/98	05/06/98	44065	0.0000246	0.0000047	0.0000050	0.0000049	0.0000296	0.0000068
S-141	05/06/98	06/04/98	47538	0.0000144	0.0000065	0.0000137	0.0000060	0.0000281	0.0000088
S-142	01/21/98	02/05/98	22970	0.0000144	0.0000069	0.0000187	0.0000107	0.0000331	0.0000127
S-142	02/05/98	03/10/98	55122	0.0000138	0.0000036	0.0000207	0.0000103	0.0000345	0.0000109
S-142	03/10/98	04/09/98	48843	0.0000106	0.0000035	0.0000137	0.0000066	0.0000243	0.0000075
S-142	04/09/98	05/06/98	44058	0.0000202	0.0000041	0.0000096	0.0000052	0.0000298	0.0000066
S-142	05/06/98	06/04/98	47552	0.0000202	0.0000076	0.0000086	0.0000048	0.0000288	0.0000089

Table 1-6 Uranium-233, -234 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/20/98	02/04/98	24173	0.0000138	0.0000051	0.0000186	0.0000096	0.0000324	0.0000109
S-107	02/04/98	03/05/98	47545	0.0000111	0.0000035	0.0000157	0.0000063	0.0000268	0.0000072
S-107	03/05/98	04/08/98	55150	0.0000086	0.0000030	0.0000124	0.0000074	0.0000211	0.0000080
S-107	04/08/98	05/07/98	47266	0.0000248	0.0000045	0.0000057	0.0000056	0.0000304	0.0000071
S-107	05/07/98	05/29/98	36087	0.0000080	0.0000062	0.0000148	0.0000095	0.0000229	0.0000114
S-007	01/20/98	02/04/98	18884	N/A	N/A	N/A	N/A	0.0000161	0.0000061
S-007	02/04/98	03/05/98	37012	N/A	N/A	N/A	N/A	0.0000174	0.0000060
S-007	03/05/98	04/08/98	42369	N/A	N/A	N/A	N/A	0.0000138	0.0000050
S-007	04/08/98	05/07/98	34915	N/A	N/A	N/A	N/A	0.0000535	0.0000086
S-007	05/07/98	06/03/98	31639	N/A	N/A	N/A	N/A	0.0000265	0.0000075

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers^a
(continued)

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-201	01/21/98	02/05/98	22882	0.0000016	0.0000015	0.0000003	0.0000014	0.0000018	0.0000021
S-201	02/05/98	03/10/98	55204	0.0000061	0.0000026	0.0000002	0.0000005	0.0000063	0.0000026
S-201	03/10/98	04/09/98	48890	0.0000054	0.0000022	0.0000009	0.0000012	0.0000063	0.0000025
S-201	04/09/98	05/06/98	42692	0.0000006	0.0000006	-0.0000003	0.0000004	0.0000003	0.0000008
S-201	05/06/98	06/04/98	47558	-0.0000001	0.0000007	0.0000011	0.0000011	0.0000010	0.0000013
S-207	01/21/98	02/05/98	23188	0.0000035	0.0000027	-0.0000001	0.0000001	0.0000034	0.0000027
S-207	02/05/98	03/10/98	54932	-0.0000001	0.0000011	0.0000003	0.0000007	0.0000002	0.0000013
S-207	03/10/98	04/09/98	48843	0.0000016	0.0000014	0.0000005	0.0000009	0.0000022	0.0000017
S-207	04/09/98	05/06/98	44086	0.0000008	0.0000010	0.0000006	0.0000009	0.0000014	0.0000014
S-207	05/06/98	06/04/98	47545	0.0000014	0.0000011	0.0000000	0.0000006	0.0000014	0.0000013
S-209	01/21/98	02/05/98	22964	0.0000018	0.0000016	0.0000008	0.0000018	0.0000026	0.0000024
S-209	02/05/98	03/10/98	55122	0.0000004	0.0000006	0.0000005	0.0000011	0.0000009	0.0000013
S-209	03/10/98	04/09/98	48822	0.0000033	0.0000019	0.0000000	0.0000008	0.0000033	0.0000021
S-209	04/09/98	05/06/98	44065	0.0000005	0.0000009	0.0000002	0.0000005	0.0000007	0.0000010
S-209	05/06/98	06/04/98	47545	0.0000001	0.0000009	0.0000005	0.0000012	0.0000007	0.0000014
S-038	01/21/98	02/05/98	17717	N/A	N/A	N/A	N/A	0.0000026	0.0000028
S-038	02/05/98	03/10/98	41062	N/A	N/A	N/A	N/A	0.0000028	0.0000015
S-038	03/10/98	04/09/98	36382	N/A	N/A	N/A	N/A	0.0000052	0.0000026
S-038	04/09/98	05/06/98	31721	N/A	N/A	N/A	N/A	0.0000021	0.0000017
S-038	05/06/98	06/04/98	31773	N/A	N/A	N/A	N/A	0.0000019	0.0000014

a These data have not been corrected for temperature.

N/A = Not Applicable

Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers^a

Location	On Date	Off Date	Flow (m³)	Fine Conc (pCi/m³)	Fine Error (pCi/m³)	Coarse Conc (pCi/m³)	Coarse Error (pCi/m³)	Total Conc (pCi/m³)	Total Error (pCi/m³)
S-131	01/21/98	02/05/98	24269	0.0000001	0.0000022	-0.0000001	0.0000002	0.0000000	0.0000022
S-131	02/05/98	03/10/98	53987	0.0000048	0.0000020	0.0000000	0.0000001	0.0000048	0.0000020
S-131	03/10/98	04/09/98	48890	0.0000057	0.0000022	-0.0000002	0.0000002	0.0000055	0.0000022
S-131	04/09/98	05/06/98	43841	0.0000008	0.0000011	0.0000020	0.0000019	0.0000028	0.0000022
S-131	05/06/98	06/04/98	47552	0.0000007	0.0000009	0.0000003	0.0000012	0.0000009	0.0000015
S-132	01/21/98	02/05/98	24275	0.0000022	0.0000021	0.0000006	0.0000024	0.0000027	0.0000032
S-132	02/05/98	03/10/98	27136	0.0000053	0.0000022	-0.0000002	0.0000003	0.0000051	0.0000022
S-132	03/10/98	04/09/98	38758	0.0000073	0.0000029	-0.0000002	0.0000003	0.0000071	0.0000029
S-132	04/09/98	05/06/98	41863	0.0000007	0.0000008	0.0000010	0.0000013	0.0000017	0.0000016
S-132	05/06/98	06/04/98	24248	0.0000002	0.0000006	0.0000005	0.0000010	0.0000007	0.0000011
S-134	01/21/98	02/05/98	22862	0.0000012	0.0000017	-0.0000006	0.0000011	0.0000006	0.0000020
S-134	02/05/98	03/10/98	55143	0.0000056	0.0000022	0.0000003	0.0000007	0.0000059	0.0000023
S-134	03/10/98	04/09/98	48890	0.0000029	0.0000016	-0.0000001	0.0000001	0.0000028	0.0000016
S-134	04/09/98	05/06/98	43698	0.0000011	0.0000010	0.0000010	0.0000013	0.0000021	0.0000016
S-134	05/06/98	06/04/98	47558	0.0000005	0.0000009	0.0000019	0.0000015	0.0000024	0.00000118
S-136	01/21/98	02/05/98	23120	0.0000004	0.0000014	-0.0000001	0.0000002	0.0000003	0.0000014
S-136	02/05/98	03/10/98	54878	0.0000032	0.0000019	0.0000004	0.0000007	0.0000036	0.0000021
S-136	03/10/98	04/09/98	48843	0.0000029	0.0000016	0.0000000	0.0000006	0.0000028	0.0000017
S-136	04/09/98	05/06/98	44154	0.0000002	0.0000010	0.0000025	0.0000018	0.0000027	0.0000020
S-136	05/06/98	06/04/98	47565	-0.0000002	0.0000007	0.0000007	0.0000011	0.0000006	0.0000013
S-137	01/21/98	02/05/98	23140	0.0000004	0.0000016	0.0000011	0.0000023	0.0000014	0.0000028
S-137	02/05/98	03/10/98	54878	0.0000062	0.0000024	0.0000002	0.0000008	0.0000064	0.0000026
S-137	03/10/98	04/09/98	48843	0.0000094	0.0000032	0.0000004	0.0000008	0.0000097	0.0000033
S-137	04/09/98	05/06/98	44160	0.0000004	0.0000010	0.0000010	0.0000013	0.0000014	0.0000016
S-137	05/06/98	06/04/98	47558	0.0000003	0.0000007	0.0000008	0.0000014	0.0000011	0.0000016
S-138	01/21/98	02/05/98	23059	0.0000000	0.0000014	-0.0000001	0.0000002	0.0000000	0.0000014
S-138	02/05/98	03/10/98	50984	0.0000082	0.0000028	0.0000001	0.0000006	0.0000083	0.0000029
S-138	03/10/98	04/09/98	44487	0.0000062	0.0000025	-0.0000001	0.0000001	0.0000061	0.0000025
S-138	04/09/98	05/06/98	34768	0.0000010	0.0000011	0.0000004	0.0000012	0.0000014	0.0000016
S-138	05/06/98	06/04/98	46573	0.0000007	0.0000011	0.0000002	0.0000027	0.0000009	0.0000029
S-140	01/21/98	02/05/98	22970	0.0000024	0.0000017	-0.0000001	0.0000002	0.0000024	0.0000018
S-140	02/05/98	03/10/98	55109	0.0000081	0.0000031	0.0000005	0.0000008	0.0000086	0.0000032
S-140	03/10/98	04/09/98	48843	0.0000051	0.0000023	0.0000008	0.0000012	0.0000059	0.0000026
S-140	04/09/98	05/06/98	44065	0.0000000	0.0000007	0.0000007	0.0000009	0.0000008	0.0000011
S-140	05/06/98	06/04/98	47538	-0.0000002	0.0000005	0.0000006	0.0000009	0.0000005	0.0000010
S-141	01/21/98	02/05/98	22964	0.0000013	0.0000023	0.0000005	0.0000021	0.0000017	0.0000031
S-141	02/05/98	03/10/98	55122	0.0000042	0.0000016	0.0000000	0.0000005	0.0000042	0.0000017
S-141	03/10/98	04/09/98	48843	0.0000098	0.0000033	-0.0000002	0.0000002	0.0000096	0.0000034
S-141	04/09/98	05/06/98	44065	-0.0000002	0.0000007	0.0000010	0.0000012	0.0000008	0.0000014
S-141	05/06/98	06/04/98	47538	-0.0000002	0.0000001	0.0000002	0.0000010	0.0000001	0.0000010
S-142	01/21/98	02/05/98	22970	0.0000011	0.0000014	0.0000012	0.0000025	0.0000023	0.0000029
S-142	02/05/98	03/10/98	55122	0.0000022	0.0000013	0.0000001	0.0000007	0.0000024	0.0000015
S-142	03/10/98	04/09/98	48843	0.0000048	0.0000023	-0.0000002	0.0000002	0.0000046	0.0000023
S-142	04/09/98	05/06/98	44058	-0.0000002	0.0000008	0.0000003	0.0000006	0.0000000	0.0000010
S-142	05/06/98	06/04/98	47552	0.0000004	0.0000009	-0.0000003	0.0000004	0.0000001	0.0000009

Table 1-4 Plutonium-239 Concentrations in Ambient Air for Onsite Samplers^a

Location	On Date	Off Date	Flow (m ³)	Fine Conc (pCi/m ³)	Fine Error (pCi/m ³)	Coarse Conc (pCi/m ³)	Coarse Error (pCi/m ³)	Total Conc (pCi/m ³)	Total Error (pCi/m ³)
S-107	01/20/98	02/04/98	24173	0.0000092	0.0000037	0.0007167	0.0002271	0.0007259	0.0002271
S-107	02/04/98	03/05/98	47545	0.0000170	0.0000044	0.0000231	0.0000079	0.0000401	0.0000091
S-107	03/05/98	04/08/98	55150	0.0000094	0.0000026	0.0000167	0.0000060	0.0000261	0.0000065
S-107	04/08/98	05/07/98	47266	0.0000092	0.0000026	0.0000228	0.0000074	0.0000321	0.0000079
S-107	05/07/98	05/29/98	36087	0.0000073	0.0000026	0.0000443	0.0000140	0.0000516	0.0000142
S-007	01/20/98	02/04/98	18884	N/A	N/A	N/A	N/A	0.0000199	0.0000060
S-007	02/04/98	03/05/98	37012	N/A	N/A	N/A	N/A	0.0000396	0.0000070
S-007	03/05/98	04/08/98	42369	N/A	N/A	N/A	N/A	0.0000218	0.0000058
S-007	04/08/98	05/07/98	34915	N/A	N/A	N/A	N/A	0.0000286	0.0000057
S-007	05/07/98	06/03/98	31639	N/A	N/A	N/A	N/A	0.0000563	0.0000091

a These data have not been corrected for temperature.

N/A = Not Applicable

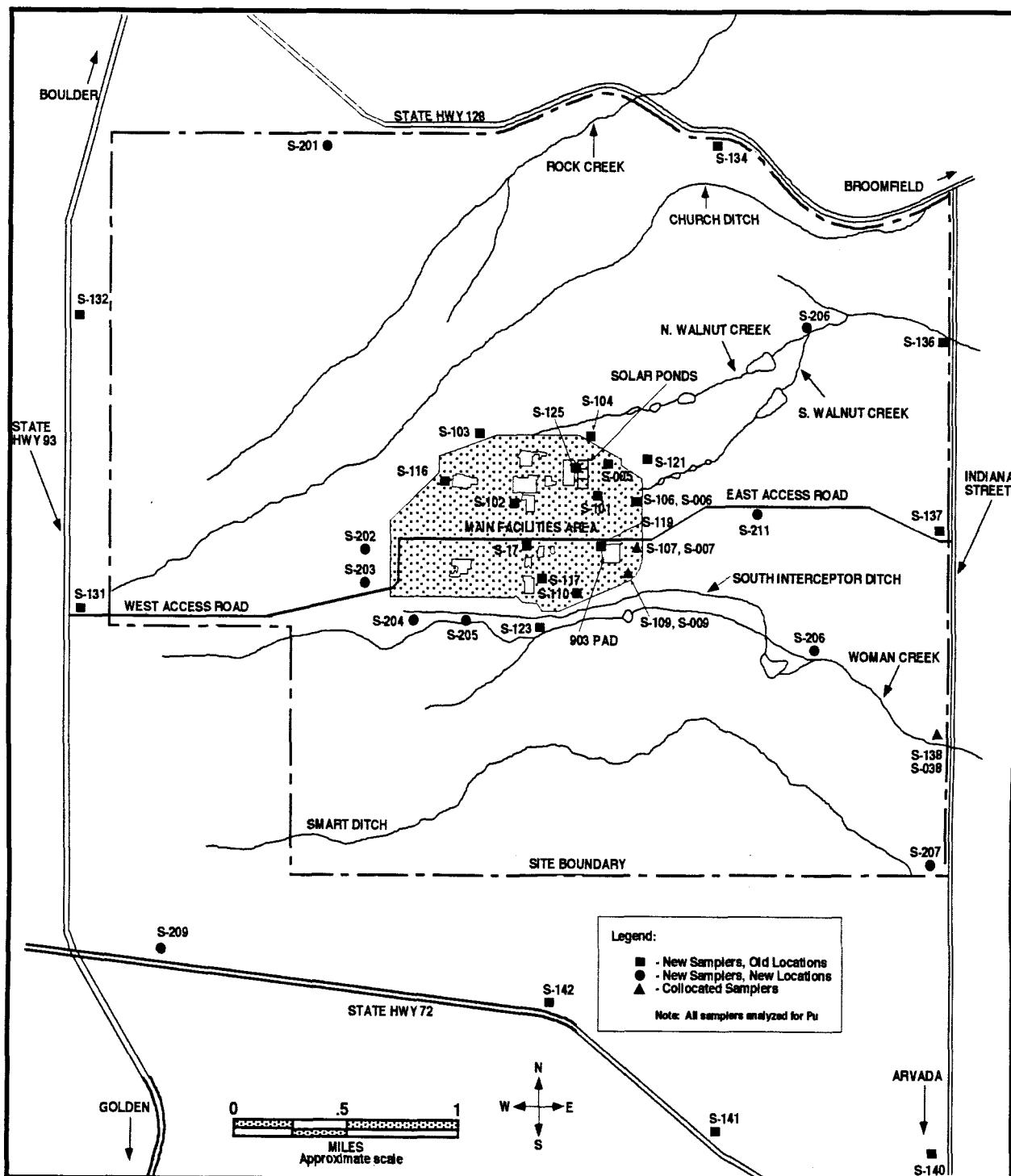


Figure 1-1 Location of Onsite and Perimeter Air Samplers

Table 1-3 Uranium-235 and Tritium Airborne Effluent Data

Month	Uranium-235		Tritium	
	Release (μCi)	C Maximum (pCi/m^3)	Release (μCi)	C Maximum (pCi/m^3)
CY 1996				
Jan - Dec	a	a	5.973	$0.218 \pm 0.02\text{b}$
CY 1997				
January	-0.0036 ± 0.0071	0.0000 ± 0.0001	0.683	$0.06 \pm 0.02\text{b}$
February	0.0012 ± 0.0101	0.0000 ± 0.0001	0.312	$0.03 \pm 0.02\text{b}$
March	-0.0105 ± 0.0072	0.0000 ± 0.0000	1.277	$0.14 \pm 0.02\text{b}$
April	0.0045 ± 0.0102	0.0000 ± 0.0000	0.628	$0.05 \pm 0.02\text{b}$
May	-0.0025 ± 0.0072	0.0001 ± 0.0001	0.318	$0.05 \pm 0.02\text{b}$
June	0.0021 ± 0.0086	0.0000 ± 0.0000	0.458	$0.05 \pm 0.03\text{b}$
July	-0.0019 ± 0.0091	0.0001 ± 0.0001	7.471	0.42 ± 0.10
August	0.0117 ± 0.0122	0.0000 ± 0.0001	9.555	0.30 ± 0.11
September	-0.0019 ± 0.0134	0.0000 ± 0.0000	7.032	0.31 ± 0.07
October	-0.0049 ± 0.0063	0.0000 ± 0.0000	10.059	12.59 ± 0.37
November	0.0091 ± 0.0128	0.0001 ± 0.0001	6.150	2.77 ± 0.16
December	-0.0010 ± 0.0019	0.0001 ± 0.0002	9.242	0.41 ± 0.11
Year to Date	0.0022 ± 0.0324	0.0001 ± 0.0002	53.132	12.59 ± 0.37

a No effluent data was reported for Uranium-235 prior to 1997.

b Currently investigating a discrepancy in previously reported maximum concentration values.

Table 1-2 Uranium Airborne Effluent Data

Month	Uranium-233, -234		Uranium-238	
	Release (μCi)	C Maximum (pCi/m^3)	Release (μCi)	C Maximum (pCi/m^3)
CY 1996				
Jan – Dec	-0.0391 ± 1.1258	0.0016 ± 0.0006	1.2560 ± 1.1556	0.0033 ± 0.0006
CY 1997				
January	-0.0673 ± 0.0368	0.0004 ± 0.0004	-0.0620 ± 0.0382	0.0003 ± 0.0004
February	-0.0459 ± 0.0411	0.0001 ± 0.0002	-0.0432 ± 0.0425	0.0001 ± 0.0002
March	-0.1460 ± 0.0219	0.0007 ± 0.0004	-0.1616 ± 0.0206	0.0004 ± 0.0003
April	0.0058 ± 0.0330	0.0002 ± 0.0001	0.0462 ± 0.0367	0.0003 ± 0.0003
May	0.0023 ± 0.0349	0.0002 ± 0.0002	0.0135 ± 0.0370	0.0002 ± 0.0002
June	0.1079 ± 0.0445	0.0005 ± 0.0002	0.1041 ± 0.0448	0.0005 ± 0.0002
July	0.0884 ± 0.0468	0.0005 ± 0.0003	0.0755 ± 0.0459	0.0003 ± 0.0003
August	0.0669 ± 0.0396	0.0002 ± 0.0002	0.0476 ± 0.0383	0.0001 ± 0.0002
September	-0.1216 ± 0.0681	0.0003 ± 0.0001	-0.1248 ± 0.0730	0.0003 ± 0.0001
October	0.0107 ± 0.0342	0.0001 ± 0.0002	-0.0105 ± 0.0333	0.0000 ± 0.0000
November	-0.0420 ± 0.0324	0.0001 ± 0.0001	-0.0245 ± 0.0340	0.0002 ± 0.0001
December	-0.0118 ± 0.0102	0.0001 ± 0.0001	0.0021 ± 0.0129	0.0001 ± 0.0001
Year to Date	-0.1525 ± 0.1361	0.0007 ± 0.0004	-0.1376 ± 0.1406	0.0005 ± 0.0002

Air Data - Errata**Table 1-1 Plutonium and Americium Airborne Effluent Data**

Month	Plutonium-239		Americium-241	
	Release (μCi)	C Maximum (pCi/m^3)	Release (μCi)	C Maximum (pCi/m^3)
CY 1996				
Jan - Dec	1.0590 ± 0.0918	0.0036 ± 0.0004	0.3274 ± 0.0351	0.0007 ± 0.0001
CY 1997				
January	0.0094 ± 0.0116	0.0001 ± 0.0001	0.0004 ± 0.0077	0.0000 ± 0.0001
February	0.0116 ± 0.0069	0.0000 ± 0.0000	-0.0002 ± 0.0010	0.0000 ± 0.0000
March	0.0080 ± 0.0035	0.0001 ± 0.0000	-0.0056 ± 0.0043	0.0000 ± 0.0000
April	0.0154 ± 0.0106	0.0002 ± 0.0001	-0.0006 ± 0.0097	0.0000 ± 0.0001
May	0.0254 ± 0.0137	0.0005 ± 0.0000	0.0365 ± 0.0184	0.0007 ± 0.0000
June	0.0179 ± 0.0247	0.0001 ± 0.0000	-0.0063 ± 0.0147	0.0000 ± 0.0000
July	0.0096 ± 0.0059	0.0001 ± 0.0000	-0.0054 ± 0.0072	0.0000 ± 0.0000
August	0.0434 ± 0.0217	0.0001 ± 0.0001	-0.0021 ± 0.0156	0.0000 ± 0.0000
September	-0.0027 ± 0.0142	0.0000 ± 0.0000	0.0014 ± 0.0213	0.0000 ± 0.0001
October	0.0181 ± 0.0144	0.0001 ± 0.0001	-0.0035 ± 0.0105	0.0000 ± 0.0000
November	0.0095 ± 0.0069	0.0008 ± 0.0001	0.0002 ± 0.0066	0.0000 ± 0.0000
December	0.0079 ± 0.0038	0.0001 ± 0.0001	-0.0004 ± 0.0046	0.0001 ± 0.0001
Year to Date	0.1735 ± 0.0456	0.0008 ± 0.0001	0.0144 ± 0.0406	0.0007 ± 0.0000

Table 1-3 Uranium-235 and Tritium Airborne Effluent Data

Month	Uranium-235		Tritium	
	Release (μCi)	C Maximum (pCi/m^3)	Release (μCi)	C Maximum (pCi/m^3)
CY 1997				
Jan - Dec	0.0022 ± 0.0324	0.0001 ± 0.0002	53.132	12.59 ± 0.37
CY 1998				
January	0.0026 ± 0.0022	0.0000 ± 0.0000	3.4597	0.3437 ± 0.0914
February	0.0021 ± 0.0034	0.0000 ± 0.0000	2.7001	0.3207 ± 0.0931
March	0.0011 ± 0.0014	0.0000 ± 0.0000	3.6149	0.3311 ± 0.1015
April	0.0004 ± 0.0021	0.0000 ± 0.0000	2.2414	0.3156 ± 0.0993
May	0.00021 ± 0.0036	0.0000 ± 0.0000	3.9793	0.4885 ± 0.1098
June	a	a	a	a
July				
August				
September				
October				
November				
December				
Year to Date	0.0083 ± 0.0060	0.0000 ± 0.0000	15.9955	0.4885 ± 0.1098

a Data is unavailable because of incomplete laboratory analysis. Results will be reported when available.

Table 1-2 Uranium Airborne Effluent Data

Month	Uranium-233, -234		Uranium-238	
	Release (μ Ci)	C Maximum (μ Ci/m 3)	Release (μ Ci)	C Maximum (μ Ci/m 3)
CY 1997				
Jan – Dec	-0.1525 ± 0.1361	0.0007 ± 0.0004	-0.1376 ± 0.1406	0.0005 ± 0.0002
CY 1998				
January	0.0151 ± 0.0056	0.0001 ± 0.0001	0.0180 ± 0.0055	0.0001 ± 0.0001
February	0.0193 ± 0.0116	0.0001 ± 0.0001	0.0256 ± 0.0121	0.0002 ± 0.0001
March	0.0037 ± 0.0041	0.0000 ± 0.0000	0.0045 ± 0.0041	0.0000 ± 0.0000
April	0.0009 ± 0.0094	0.0000 ± 0.0001	0.0032 ± 0.0107	0.0001 ± 0.0001
May	0.0009 ± 0.0101	0.0000 ± 0.0001	0.0010 ± 0.0095	0.0000 ± 0.0001
June	a	a	a	a
July				
August				
September				
October				
November				
December				
Year to Date	0.0399 ± 0.0194	0.0001 ± 0.0001	0.0522 ± 0.0200	0.0002 ± 0.0001

a Data is unavailable because of incomplete laboratory analysis. Results will be reported when available.

Section 1: Air Data

Table 1-1 Plutonium and Americium Airborne Effluent Data

Month	Plutonium-239		Americium-241	
	Release (μ Ci)	C Maximum (μ Ci/m ³)	Release (μ Ci)	C Maximum (μ Ci/m ³)
CY 1997				
Jan – Dec	0.1735 ± 0.0456	0.0008 ± 0.0001	0.0144 ± 0.0406	0.0007 ± 0.0000
CY 1998				
January	0.0220 ± 0.0044	0.0004 ± 0.0001	0.0053 ± 0.0021	0.0001 ± 0.0000
February	0.00013 ± 0.0014	0.0000 ± 0.0000	0.0008 ± 0.0056	0.0000 ± 0.0000
March	0.0074 ± 0.0015	0.0002 ± 0.0000	0.0013 ± 0.0019	0.0000 ± 0.0000
April	0.0054 ± 0.0058	0.0000 ± 0.0000	0.00028 ± 0.0087	0.0001 ± 0.0001
May	0.0031 ± 0.0028	0.0001 ± 0.0001	0.0073 ± 0.0065	0.0000 ± 0.0001
June	a	a	a	a
July				
August				
September				
October				
November				
December				
Year to Date	0.0392 ± 0.0081	0.0004 ± 0.0000	0.0175 ± 0.0126	0.0001 ± 0.0000

a Data is unavailable because of incomplete laboratory analysis. Results will be reported when available.

off-normal conditions were noted at the time the WET test sample was collected. The toxicity is most likely due to a combination of ammonia concentration and pH. There is no effluent limitation for WET testing and it is reported as information only.

Hydrologic Monitoring and Rocky Flats Cleanup Agreement (RFCA) Monitoring

Analytical data for second quarter 1998 (April – June) from samples collected for RFCA and Hydrologic Monitoring are included in this report.

Meteorology and Climatology

Meteorological data are routinely measured from instrumentation on a 61-meter tower located in the west buffer zone at an elevation of 1,870 meters (6,140 feet) above sea level. All meteorological data are being collected on a real-time basis and are loaded into the Computer Assisted Protective Action Recommendations System (CAPARS) model for emergency response purposes.

Climatic summaries for October 1997 through May 1998 are included in this report. The Windroses are not available at this time due to changes being made in data processing software. They will be reported when available.

Data from the following times are missing due to maintenance, equipment failure, or calibrations:

January 7, from 0945 to 1215
February 2, from 0915 to 2400
February 3, from 0000 to 1545
February 24, from 0930 to 1045
April 21, from 0715 to 0900
May 1, from 1015 to 1100
May 5, from 0815 to 1145

Surface Water

Surface water analytical data collected during second quarter 1998 (April – June) for NPDES/FFCA permit compliance are presented in this report. All reported data are consistent with historical measurements and within permit limitations.

In June 1998, at the end of a Pond B-5 discharge, the Site missed collecting two grab samples for non-volatile suspended solids (NVSS) for June 9, 1998 and June 10, 1998. A problem with the stop nut for the gate valve of the outlet works allowed the valve to leak. It is estimated that approximately 300,000 gallons were discharged from June 9, 1998 and June 10, 1998. Once the problem was identified on June 11, 1998 an NVSS sample was collected and the gate valve was securely closed. Two new stop nuts have been installed on the gate valve mechanism and should prevent a re-occurrence of the leakage. This parameter is “report only” and is summarized in the *Annual Discharge Monitoring Report* for the Site.

Additionally, the Site missed a Nitrate/Nitrite as N (NO₃/NO₂) at Pond B-3 on June 30, 1998. The permit requires that this parameter be collected weekly for a 30-day and 7-day average. The sample was collected as required, but the Chain of Custody (COC) form was filled out incorrectly and the bottle was not analyzed for NO₃/NO₂. All other NO₃/NO₂ samples from Pond B-3 are typical of historic measurements and within permit limitations.

Quarterly Whole Effluent Toxicity (WET) testing data for the period April to June 1998 are summarized in this report, including the Sewage Treatment Plant (Outfall STP), where some toxicity was found. The sample collected on April 17, 1998 showed toxicity for *Pimephales promelas* (fathead minnows), but not for *Ceriodaphnia dubia* (water fleas). No unusual or

Rocky Flats Environmental Technology Site

Quarterly Environmental Monitoring Report

April - June Highlights

This report is produced and distributed quarterly as part of our ongoing Agreement in Principle and as a forum for the Rocky Flats Cleanup Agreement (RFCA) quarterly reporting requirement. Additional information about quarterly reporting will be formalized after completion of the Integrated Monitoring Plans (IMP) for the various media sampled.

Airborne Effluent

Complete isotopic analytical data for January through May 1998 are included in this report. For location 779-729, sampler number 5, there is inconsistent traveler information for dates March 30 to April 6, 1998. The slightly increased uncertainty in the calculations due to this inconsistency does not impact the reported results. Data for June 1998 are not complete at this time. All data are within the normally observed ranges of concentrations for their respective locations.

The summary effluent data contained in this report differ from the summaries presented at the August Data Exchange meeting. Consistent with all other uses of these data, positive values only are included in the total release calculation (the negative values are treated as zeros). The uncertainty (error) calculation does reflect all values.

Errata data for the calendar year 1997 are included in this report. Only the release errors for the month of December 1997 and the Tritium December release were incorrectly reported in the January – March 1998 report.

Ambient Air

Complete isotopic analytical data for January through May 1998 for coarse (> 10 micrometers) and fine (<10 micrometers) particles are included in this report. Data for June 1998 are not complete at this time. All data are within the normally observed ranges of concentrations for their respective locations.

Some of the data presented at the August Data Exchange meeting differ from those contained in this document. Two issues have been addressed:

- A malfunction in the hour meter (used to establish filter exposure time) was realized at sampler S-132 for February and May 1998. Therefore, an estimate of running time, based on filter exchange data and time, was used to calculate the sample volume.
- One of the analytical laboratories resubmitted corrected fine fraction data for all locations (except S-107) for May 1998.

Errata data for the calendar year 1997 are included in this report. Several small errors were corrected throughout the data.

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